

# ÖZGEÇMİŞ VE ESERLER LİSTESİ

## ÖZGEÇMİŞ

**Adı Soyadı:** Alper İlki

**Doğum Tarihi:** 20 Şubat 1970

**Öğrenim Durumu:**



Derece	Bölüm/Program	Üniversite	Yıl
Lisans	İnşaat Mühendisliği	İstanbul Teknik Üniversitesi	1992
Y. Lisans	Yapı Mühendisliği	İstanbul Teknik Üniversitesi	1994
Doktora	Yapı Mühendisliği	İstanbul Teknik Üniversitesi	2000

**Yüksek Lisans Tez Başlığı ve Tez Danışmanı:** Betonarme Çerçevelerin Tekrarlı Yükler Altında Taşıma Gücü, Prof.Dr. Nahit Kumbasar

**Doktora Tezi Başlığı ve Tez Danışmanı:** Betonarme Elemanların Yön Değiştiren Tekrarlı Yükler Altında Doğrusal Olmayan Davranışı, Prof.Dr. Nahit Kumbasar

**Görevler:**

Görev Unvanı	Görev Yeri	Yıl
Ar.Gör.	İnşaat Fakültesi İstanbul Teknik Üniversitesi	1993-2000
Dr.Ar.Gör.	İnşaat Fakültesi İstanbul Teknik Üniversitesi	2000-2000
Yar.Doç.Dr.	İnşaat Fakültesi İstanbul Teknik Üniversitesi	2000-2005
Doç.Dr.	İnşaat Fakültesi İstanbul Teknik Üniversitesi	2005-2011
Prof.Dr.	İnşaat Fakültesi İstanbul Teknik Üniversitesi	2011-

### Yönetilen Doktora Tezleri:

1.Bedirhanoglu, I., "*Düşük dayanımlı betona sahip betonarme kolon ve birleşimlerin deprem yükleri altında davranışlarının incelenmesi ve iyileştirilmesi*", İstanbul Teknik Üniversitesi, 2009 (co-supervised with Prof. Sozen).

2.Ispir, M., "*A comprehensive experimental research on the behavior of historical brick masonry walls of 19th century buildings*", İstanbul Technical University, 2010.

3.Goksu, C., "*Seismic behavior of RC columns with corroded plain and deformed reinforcing bars*", İstanbul Technical University, 2011.

4.Demir, C., "*Seismic behavior of historical stone masonry multi-leaf walls*", İstanbul Technical University, 2012.

5.Gunes, B., "*Fatigue behavior of steel-concrete composite beams strengthened with CFRPs*", İstanbul Technical University, 2013 (co-supervised with Prof. Ozturun).

6.Coşgun, C., "*Seismic retrofit of joints of 3D reinforced concrete frames with FRP*", İstanbul Technical University, 2013 (co-supervised with Asst.Prof. Turk).

7.Ghate, H.F., "Seismic retrofit of full-scale rectangular RC columns with low strength concrete by using CFRP wrapping under different axial load", Istanbul Technical University, 2016.

8.Seyhan, E.C., "Improvement of the cyclic flexural capacity of RC columns with FRP reinforcement", Istanbul Technical University, 2016.

9.Comert, M. "Mevcut betonarme binaların deprem performansları üzerine tam ölçekli bina deneyleri ve modelleme önerileri", Istanbul Technical University, 2017.

10.Bas, S., "An investigation on structural identification (St-Id) of a long-span bridge for performance prediction", Istanbul Technical University, 2017 (co-supervised with Assoc.Prof. Apaydin).

11.Inci, P., "Field testing and model updating of typical RC buildings for damage identification", Istanbul Technical University, 2017 (co-supervised with Prof. Catbas).

12.Gurbuz, T., "Impact performance and mitigation of reinforced concrete columns", Queensland University of Technology, 2018 (co-supervised with Prof. Thambiratnam and Dr. Perera).

13.Dalgic, D.K., "Building response to ground movements induced by tunneling and excavation", Istanbul Technical University, 2018 (co-supervised with Prof. Hendriks).

14.Saribas, I., "Use of environmental-friendly recycled aggregate concrete in production of structural members", Istanbul Technical University, 2019.

15. Yilmaz, C., "Experimental investigation of residual load capacity of reinforced concrete beams exposed to impact", Sakarya University of Applied Sciences, 2019 (co-supervised with Dr. Kirtel).

16. Senturk, M., "Developing a bolted moment connection system for precast reinforced concrete frames", Karadeniz Technical University, 2020 (co-supervised with Prof. Pul).

17. Dok, G., "Experimental investigation of the effects of impact damages on the performance of high-strength beams", Sakarya University, 2020 (co-supervised with Prof. Caglar).

18. Demir, U., "Assessment of seismic performance of RC members after fire exposure through large-scale testing", Istanbul Technical University, 2020 (co-supervised with Prof. Green).

### **Yönetilen Yüksek Lisans Tezleri:**

Durgut, E., "Investigation of the Bursa Hocaalızade Mosque minaret under different earthquake records with linear and nonlinear analysis approach", Istanbul Technical University, 2021.

Altinok, M.A., "Use of fragility curves for evaluation of different seismic retrofitting techniques applicable to substandard structures", Istanbul Technical University, 2020.

Karakaya, B., "Effect of distribution of material mechanical properties on seismic vulnerability for substandard buildings", Istanbul Technical University, 2020.

Aldirmaz, B., "Investigation of structural health monitoring of a high rise building", Istanbul Technical University, 2020 (co-supervised with Prof. Kusunoki).

Alamehmet, A.Z., "Investigation of the Bursa Grand Mosque Eastern Minaret's behavior by linear and nonlinear analysis", Istanbul Technical University, 2019.

Kupcu, E., "Fragility analysis of a substandard reinforced concrete structure by using incremental dynamic analysis", Istanbul Technical University, 2019.

Sanver, A.N., "Assessment, repair and in-situ experimental investigation of a reinforced concrete emergency water tower", Istanbul Technical University, 2019.

Unal, G., "Seismic performance of full-scale fire-exposed reinforced concrete columns produced by recycled concrete aggregate", Istanbul Technical University, 2018.

Yildiz, T., "Capturing the damages of a reinforced concrete building that experienced Van earthquake through performance evaluation methods", Istanbul Technical University, 2016.

Uzer, T., "Behaviour of axially loaded RC columns subected to impact loading", Istanbul Technical University, 2015.

Ince, S., "Utilization of recycled concrete in structural members", Istanbul Technical University, 2015.

Khoshkholghi, S., "Strengthening of low-strength short columns with sprayed up textile reinforced GFRG", Istanbul Technical University, 2015.

Baydar, C., "Evaluation of seismic performance and rehabilitation methods for an existing substation structure", Istanbul Technical University, 2015.

Senturk, M., "Seismic retrofit of rectangular RC columns with cross-sectional aspect ratio of three using FRP sheets", Istanbul Technical University, 2015.

Moshfeghi, A., "A new model for plastic hinge length of RC columns and evaluation of seismic assessment documents", Istanbul Technical University, 2015.

Kaya, E., "Enhancement of the flexural behavior of support region of beams under reversed cyclic loads by using advanced material", Istanbul Technical University, 2014 (co-supervised with Prof. Sheikh).

Yilmaz, I.A., "External jacketing of historical walls with basalt fiber mesh reinforced mortar", Istanbul Technical University, 2014.

Karayigit, H., "Evaluation of seismic performance of existing reinforced concrete frame buildings", Istanbul Technical University, 2014.

Guley, E.E., "Effects of details of transverse reinforcement on ductility of lightly confined substandard square and rectangular columns", Istanbul Technical University, 2014.

Nasrinpour, A., "Seismic retrofit of RC columns with sprayed basalt mesh reinforced GRC: Effects of stirrup spacing", Istanbul Technical University, 2014.

Gundogan, S., "Seismic performance analysis of existing reinforced concrete buildings designed according to 1975 Turkish Earthquake Code", Istanbul Technical University, 2014.

Mezrea, P.E., "Retrofitting of historical brick masonry walls with textile reinforced mortar", Istanbul Technical University, 2014.

Vulas, Y., "Rapid performance seismic assessment method (PERA) for existing reinforced concrete frame buildings", Istanbul Technical University, 2014.

Ozcelik, M., "Seismic assessment of existing buildings using PERA, RBTE and DBYBHY-2007", Istanbul Technical University, 2014.

Cavunt, Y., "The interface shear strength of the concrete layers cast at different times: influence of surface preparation", Istanbul Technical University, 2013.

Cavunt, D., "In-situ pullout and shear tests for retrofit anchors in low strength concrete", Istanbul Technical University, 2013.

Saribas, I., "Effects of deficiencies of transverse reinforcement detailing on the behavior of reinforced concrete columns", Istanbul Technical University, 2013.

Ghaffari, P., "Seismic rehabilitation of columns with corroded reinforcing bars through practical interventions", Istanbul Technical University, 2013.

Demir, U., "Axial behavior of high performance fiber reinforced cementitious composites wrapped by FRP sheets", Istanbul Technical University, 2013.

Kalyoncuoglu, A., "Rehabilitation of corrosion damaged substandard RC columns using FRP", Istanbul Technical University, 2013.

Uzunhasanoglu, A., "Anchorage of aramid fiber laminates used for seismic flexural strengthening of reinforced concrete columns", Istanbul Technical University, 2012.

Aydin, A., "Comparison of the observed damage and calculated performance assessment results according to the Turkish Seismic Design Code (2007) for an RC building which exposed to Van earthquake", Istanbul Technical University, 2012.

Inci, P., "Effects of reinforcement corrosion on the seismic performance of RC frame buildings", Istanbul Technical University, 2011.

Okumus, V., "Fatigue behavior of steel-concrete composite bridge beams", Istanbul Technical University, 2011.

Ekici, E., "Comparison of observed structural damages and code given structural performance limits", Istanbul Technical University, 2011.

Yilmaz, E., "FRP strengthening of masonry walls constructed with hollow clay bricks and size effects on the observed behavior", 2010.

Dođu, E., "Çift cidarlı moloz dolgulu tarihi taş duvarların yatay yükler altındaki davranışının deneysel olarak İncelenmesi", İstanbul Teknik Üniversitesi, 2010.

Cömert, M., "Betonarme yapıların patlamalar karşısındaki performanslarının değerlendirilmesi", İstanbul Teknik Üniversitesi, 2010.

Işıltan, Ö., "Betonarme kolonlar için DBYBHY2007, Eurocode-8, Fema-356 ile yapılan performans değerlendirmelerinin deney sonuçlarıyla karşılaştırması", İstanbul Teknik Üniversitesi, 2010.

Dalgıç, D.K., "Düşük elastisite modüllü bir tür lifli polimer ile sargılanmış betonun davranışı ve sonlu eleman metodu ile analizi", İstanbul Teknik Üniversitesi, 2010.

Yılmaz, H., "The effect of lap splice length of longitudinal bars on the performance of low strength reinforced concrete members under lateral loads", Istanbul Technical University, 2009.

Yildiz, H., "Investigating the effects of lap spliced low strength reinforced concrete columns on structural performance under different axial loads", Istanbul Technical University, 2009.

Polat, A., "Flexural strengthening of low strength reinforced concrete members with plain bars by using fiber reinforced polymer reinforcement", Istanbul Technical University, 2009.

Kolcu, K., "Yükleme hızının lifli polimer sargılı betonun eksenel yükler altındaki davranışına etkisi", İstanbul Teknik Üniversitesi, 2008.

Gedik, O., "LP sargılı beton için önerilmiş olan dayanım ve şekildeğiştirme modellerinin karşılaştırılması", İstanbul Teknik Üniversitesi, 2008.

Demirtas, B., "Korozyonun betonarme kolonların deprem performansına etkisi", İstanbul Teknik Üniversitesi, 2008.

Gurbuz, T., "Pull-out performance of retrofit adhesive anchors", Istanbul Technical University, 2007.

Incecik, O., "Seismic behavior of beam-column connections of reinforced concrete structures", Istanbul Technical University, 2007.

As, F., "Retrofitting of historical masonry walls with FRP composites", Istanbul Technical University, 2007.

Basegmez, I.H., "Seismic retrofit of shear deficient reinforced concrete short columns with FRP composites", Istanbul Technical University, 2007.

Candan, Y., "Strengthening of low strength concrete panels using innovative materials", Istanbul Technical University, 2007.

Kaya, Y., "Pull-out behaviour of partially bonded anchors to be used in retrofitting existing structures under different anchorage interface conditions", Istanbul Technical University, 2007.

Seyhan, E.C., "Kimyasal Ankrajların Davranışlarının İncelenmesi", İstanbul Teknik Üniversitesi, 2006.

Akgun, D., "Yüksek Performanslı Lif Donatılı Çimento Esaslı Kompozit Panellerle Güçlendirilmiş Düşük Dayanımlı Beton Elemanlar", İstanbul Teknik Üniversitesi, 2005.

Goray, R.O., "Yüksek Performanslı Lif Donatılı Çimento Esaslı Kompozit Panellerle Güçlendirilmiş Beton Elemanların Eksenel Yükler Altında Davranışı", İstanbul Teknik Üniversitesi, 2005.

Peker, Ö., "Düşük Dayanımlı Betonarme Elemanların CFRP ile Güçlendirilmesi", İstanbul Teknik Üniversitesi, 2005.

Karamuk, E., "Karbon Lif Takviyeli Polimer Malzeme ile Güçlendirilmiş Betonarme Kolonların Eksenel Yükler Altında Davranışı", İstanbul Teknik Üniversitesi, 2005.

Kozbay, T., "Öndöküm SFRC Paneller ile Güçlendirilen Kolon Sarılma Bölgelerinin Davranışı", İstanbul Teknik Üniversitesi, 2005.

Sarmanlı, C., "Çelik Tüp ile Güçlendirilen Kolon Sarılma Bölgelerinin Davranışı", İstanbul Teknik Üniversitesi, 2005.

Tezcan, A., "Kolon Sarılma Bölgelerinin CFRP Kompozitler ile Güçlendirilmesi", İstanbul Technical University, 2004.

Yılmaz, E., "Çelik Lif Takviyeli Öndöküm Beton Paneller ile Kolon Güçlendirmesi", İstanbul Technical University, 2004.

Demir, C., "Mantolanmış Hasarlı Betonarme Elemanların Yön Değiştiren Tekrarlı Yükler Altında Davranışı", İTÜ, 2004.

Koç, V., "Karbon Lif Takviyeli Polimer Malzemeler ile Güçlendirilmiş Düşük ve Normal Dayanımlı Beton Elemanların Davranışı", İTÜ, 2004.

Yağcıoğlu, A.A., "Mevcut Bir Betonarme Binanın Yapısal Çözümlemesi ve Sismik İndeks Yöntemine Göre İncelenmesi", İTÜ, 2003.

### **Araştırma Projelerinde Yaptığı Görevler:**

*Seismic housing resilience in Turkey: Sustainable strategies for seismic retrofitting decisions, Global Challenges Research Fund Networking Grants, The Academy of Medical Sciences, The British Academy, Royal Academy of Engineering, the Royal Society, **Lead Overseas Applicant**, 2021. (51.500.- TL - 4740 GBP)*

*Investigation of out-of-plane response of infill walls with Murfor reinforcement-Bekaert, ITU-NOVA, **Project Coordinator**, 2020-2021. (385.000.- TL – 42.500.- Euro)*

*Assessment of effects of radius of curvature on the performance of CFRP confined concrete columns-DowAksa, ITU-NOVA, **Project Coordinator**, 2019-2020. (70.000.- TL – 11.000 Euro)*

*Assessment of strengthening of full-scale precast bridge girders with thick carbon fiber laminates-DowAksa, ITU-Nova, **Project Consultant**, 2020. (200.000.- TL- 27.000.- Euro)*

*Rapid assessment of collapse risk of existing buildings-Ministry of Environment and Urbanisation, İTÜ Nova, **Project Coordinator**, 2020. (295.000.- TL – 40.000.- Euro)*

*Seismic Performance of Sub-standard Columns Subjected to High Axial Stresses and Long Term Loading (Uzun Süre ve Farklı Seviyelerde Eksenel Yüke Maruz Kalmış Mevcut*

*Yetersiz Kolonların Deprem Performansı*), TUBITAK Project, 119M623, **Project Coordinator**, 2019-2022. (526.107.- TL – 85.000 Euro)

*Earthquake Performance of Substandard RC Members and Use of New Materials for Enhancement of Structural Performance (Standart Altı Betonarme Yapı Elemanlarının Deprem Performansı ve Deprem Performansının İyileştirilmesi için Yeni Malzemelerin Kullanımı)*, TUBITAK 2521 – Pakistan Bilim ve Teknoloji Bakanlığı ile İşbirliği Programı, 118M261, **Project Coordinator**, 2019-2021. (356.500 TL – 58.000 Euro)

*Bursa Tarihi Minarelerinin Deprem Performanslarının Analitik ve Deneysel Yaklaşımlar ile İncelenmesi ve Hasargörebilirlik Eğrilerinin Elde Edilmesi*, AFAD-UDAP Project, UDAP-G-18-07, **Project Coordinator**, 15.12.2018-15.06-2020 (394.485.- TL – 65.000 Euro)

*Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe-SERA; Infills and Masonry Structures Protected by Deformable Polyurethanes in Seismic Areas (INMASPOL)*, **Partner No:2, Coordinator**, 2018-2019. (80.000 Euro)

*Rapid Seismic Risk Assessment for Substandard Buildings and A Framework for Post-Earthquake Disaster Management*, TUBITAK-RCUK International Bilateral Research Project, 216M379, **Project Coordinator**, 2017-2020. (697.960.- TL – 175.000 Euro)

*Seismic Retrofit of Reinforced Concrete Shear Walls Designed and Constructed Prior to Enforcement of the Recent Seismic Design Codes*, TUBITAK Project (Rapid Support), 217M617, **Researcher**, 2018-2019. (25.960.- TL – 5.000 Euro)

*A bolted moment resistant connection system for precast reinforced concrete members*, TUBITAK Project, 117M346, **Researcher**, 2017-2018. (245.470.- TL – 70.000.- USD)

*Seismic Performance of Reinforced Concrete Columns Exposed to Fire Damage*, Istanbul Technical University Research Fund, **Project Coordinator**, 2016-2017. (14.700.- TL)

*Parametric Investigation of Chemical Anchors*, supported by HILTI, **Project Coordinator**, 2016-2017. (325.000.- TL – 90.000.- Euro)

*Demonstration of Efficiency of FRP Retrofitting on Full-Scale Sub-Standard RC Buildings through Reversed Cyclic Collapse Tests*, supported mainly by DowAksa and Yalova Governernship, **Project Coordinator**, 2016.

*Usability of Concrete Made using Recycled Agregate (RCA) for Reinforced Concrete Columns*, Istanbul Technical University Research Fund, **Project Coordinator**, 2015-2017. (15.000.- TL)

*Use of Recycled Concrete in New Buildings*, TUBITAK-NSF Project, 115M029, **Project Coordinator**, 2015-2016. (200.250.- TL ~ 70.000.- USD)

*Pilot Studies on Monitoring, Assessment and Rehabilitation of Historical Structures in Istanbul towards Risk Reduction*, ISTKA-2013/AFT, Istanbul Development Agency, 2014-2015. **Project Advisor**, (770.000.- TL ~ 350.000.- USD)

*Impact Performance of RC Members and Improvement of Impact Performance through FRP composites*, TUBITAK Project, 114M087, **Project Coordinator**, 2014-2015. (28.814.- TL)

*Assessment of Seismic Performance of Existing Buildings with Full-Scale Tests*, ISTKA-2012/AFT, Istanbul Development Agency, 2013-2014. **Project Coordinator**, (664.300.- TL ~ 350.000.- USD) + (50.000.- TL Istanbul Technical University Research Fund)

*Enhancement of the flexural behavior of support region of beams under reversed cyclic loads by using advanced materials*, TUBITAK Project, 113M112, **Project Advisor**, 2013-2014. (28.800.- TL)

*Improvement of the Cyclic Flexural Capacity of RC Columns with FRP Reinforcement*, Istanbul Technical University Research Fund, Project No: 36034, **Project Coordinator**, 2012-2013. (14.820.- TL)

*LP Kompozitler ile Mevcut Betonarme Binalardaki Dikdörtgen Kesitli Kolonların Dayanım ve Sünekliklerinin Geliştirilmesi*, İstanbul Teknik Üniversitesi, Bilimsel Araştırma Projesi, **Proje Yöneticisi**, Proje No: 36539, 2011-2012. (13610.- TL).

*Enhancement of Strength and Ductility of Rectangular Columns of Existing Buildings with FRP Composites*, TUBITAK Project, 111M431, **Project Coordinator**, 2011-2013. (24.940.- TL)

*Retrofitting of Exterior Beam-Column Joints using CFRP Prestressed Sheets*, KFUPM Internal Rsearch Grant, **Consultant (PI, M. Baluch)**, 2011-2013 (24 months), (190.850 Saudi Riyals)

*Donatıları Korozyona Uğramış olan Düşük Dayanımlı Betonarme Kolonların Basit Müdahalelerle Deprem Performanslarının İyileştirilmesi*, İstanbul Teknik Üniversitesi, Bilimsel Araştırma Projesi, **Proje Yöneticisi**, Proje No: 34997, 2011-2012. (4950.- TL).

*Tarihi Tuğlalar ile Örülen Kolonların Lifli Polimer Kumaşlar ile Sargılanması*, İstanbul Teknik Üniversitesi, Bilimsel Araştırma Projesi, **Proje Yöneticisi**, Proje No: 34989, 2011-2012. (4967.- TL).

*Seismic Retrofit of Typical Wall Systems in Traditional Structures in the Kingdom*, KFUPM Internal Rsearch Grant, **Consultant (PI, A.H. Al-Gadhib)**, 2010-2013 (36 months), (597.600 Saudi Riyals)

*EU-FP-7, Series Project, Seismic Engineering Research Infrastructures for European Synergies*, **Project Leader in ITU**, 2009-2013. (4 million EUR, ITU: 178.500 EUR)

*Üç Boyutlu Betonarme Çerçevelerin Düşüm Noktalarının İleri Teknoloji Malzemeler ile Güçlendirilmesi*, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2010-2012. (50.000.- TL)

*EU, FP-7, Safecast Project, Performance of Innovative Mechanical Connections in Precast Buildings Structures under Seismic Conditions*, **ITU Representative with Prof. Karadogan**, 2009-2012. (3 million EUR, ITU: 320.000 EUR)

*Donatıları Korozyona Uğramış Betonarme Kolonların İleri Teknoloji Malzemeler İle Onarım ve Güçlendirilmesi*, İstanbul Teknik Üniversitesi, Bilimsel Araştırma Projesi, **Proje Yöneticisi**, Proje No: 32794, 2009. (11950.- TL).

*Osmanlı Klasik Dönem Üç Cidarlı Taş Yığma Yapı Duvarlarının Deprem Yükleri Altındaki Davranışlarının İncelenmesi*, İstanbul Teknik Üniversitesi, Bilimsel Araştırma Projesi, **Proje Yöneticisi**, Proje No: 33037, 2009-2010. (11977.- TL).

*Yığma Duvarların Kayma Dayanımlarının Deneysel olarak Belirlenmesi ve Güçlendirme*, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2008-2009. (11.740.- YTL).



*Yükleme Hızının Lifli Polimer Sargılı Betonun Eksenel Yükler Altındaki Davranışına Etkisi, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2008-2009. (4970.- YTL).*

*Yapıların Güçlendirilmesinde Kullanılan Kimyasal Ankrajların Performanslarının İncelenmesi, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2007-2008. (4000.- YTL).*

*Betonarme Yapıların Kolon-Kiriş Birleşim Bölgelerinin Deprem Performanslarının İncelenmesi, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, Proje No: 32002, 2007. (3740.- YTL).*

*Betonarme Yapıların Kolon-Kiriş Birleşim Bölgelerinin İleri Teknoloji Malzemeler ile Güçlendirilmesi, TÜBİTAK Projesi, 106M054, **Proje Yöneticisi**, 2006-2009. (284.760.- YTL)*

*Yüksek Performanslı Çelik Lif Takviyeli Çimento Esaslı Kompozit Panellerle Güçlendirilmiş Düşük Dayanımlı Beton Elemanlar, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2005-2006.*

*Yüksek Performanslı Çelik Lif Takviyeli Çimento Esaslı Kompozit Panellerle Güçlendirilmiş Beton Elemanlar, İTÜ Araştırma Fonu Projesi, **Proje Yöneticisi**, 2005-2006.*

*Betonarme Yapıların Güçlendirilmesinde Kullanılan Kompozitlerin Betona Aderansına Beton Dayanımının Etkisi, İTÜ Araştırma Fonu Projesi, **Araştırmacı**, 2005-2006.*

*EU-FP-6, Lessloss Project, Risk Mitigation for Earthquakes and Landslides, **Araştırmacı**, 2004-2007. (11.8 million EUR)*

*Beton Bileşim ve Geçirimlilik Özelliklerinin Donatı Korozyonu üzerine Etkisi, TÜBİTAK Projesi, MAG-I686, **Araştırmacı**, 2004-2006.*

*Bindirme Boyu ve/veya Sargı Donatısı Yetersizliği Bulunan Hasarlı ve Hasarsız Betonarme Elemanların Onarım ve/veya Güçlendirmesi, TÜBİTAK Projesi, İÇTAG-I585, **Proje Yöneticisi**, 2002-2004.*

*Karbon Lif Takviyeli Polimer Tabakaları Sarılarak Güçlendirilmiş Betonun Davranışı, Türkiye Deprem Vakfı Araştırma Projesi, Proje No. 01-AP-118, **Proje Yöneticisi**, 2001-2002.*

*Karbon Lif Takviyeli Kompozit Malzeme ile Sarılmış Betonun Davranışı, İTÜ Araştırma Fonu Projesi, Proje No. 1607, **Proje Yöneticisi**, 2001.*

*Mevcut Binalar için Güçlendirme Yöntemleri Geliştirilmesi, TÜBİTAK Projesi, İÇTAG-I575, **Araştırmacı**, 2001-2004.*

*Onarılmış ve Güçlendirilmiş Betonarme Kolonların Davranışı, TÜBİTAK Projesi, İNTAG-568, **Araştırmacı**, 2000-2002.*

*Türk İtfaiye Teşkilatının Yeniden Yapılandırılması, İçişleri Bakanlığı, İTÜ, Türkiye İtfaiyeciler Birliği Projesi, **Araştırmacı**, 2001-2002.*

*Betonarme Elemanların Tekrarlı Yükler Altında Doğrusal Olmayan Davranışı, TÜBİTAK Projesi, İNTAG-559, **Araştırmacı**, 1998-1999.*

*Betonarme Yapıların Tekrarlı Yükler Altında Doğrusal Olmayan Davranışı, İTÜ Araştırma Fonu Projesi, Proje No. 920, **Araştırmacı**, 1997-1999.*

### **Uygulama Projeleri (bazı örnekler):**

Consultancy for restoration of Antalya Kesik Minare, (more than 1000 years old), 2017.

Consultancy for restoration of Yerebatan Cistern, (more than 1000 years old), 2017.

Consultancy for a local repair in Hagia Sophia Museum, (more than 1000 years old), 2017.

Consultancy for restoration of Davut Pasha Mosque, (more than 500 years old), 2017.

Review of SFRC design of North Marmara highway tunnels, 2017.

Review of structural design of tram bridges on piles (Eminonu-Alibeykoy Line), 2017.

Review of structural analysis and measures toward protection of Historical Nusretiye Clock Tower during excavations of ground floors beneath this structure, 2017.

Review of Structural Design of Sun Plaza Kartal Building (appx. 30 stories), 2017.

Consultancy for structural assessment and rehabilitation of Dayi Plastic Factory exposed to a severe fire, 2017.

Review of structural assessment and retrofit of Kimtas Lime Factories in Bartın and Kırklareli, 2016-2017.

Structural assessment of failure of large span dome of Ankara Podium Shopping Center, 2016.

Structural assessment of vulnerability of several existing buildings on the metro line to Sabiha Gökçen Airport, 2016.

Structural assessment of failure of 55 m high reinforced concrete cooling tower in Iskenderun, 2016.

Consultancy for structural assessment of several facilities of Sise Cam in Turkey and Bulgaria, 2016.

Consultancy for restoration of Eskişehir İnönü Aladdin Mosque, 2016.

Review of Structural Design of Electrical Cable Galleries of Gaziantep 5th Industrial Zone (10 km long), 2015.

Scientific Committee Member for restoration of Historical Sivas Divriği Mosque and Hospital (approximately 1000 years old), 2015.

Vibration Monitoring of Sedat Eratik Eye Hospital during Avrasya Tunnel Construction, 2015.

Consultancy for restoration of Historical Hırkai Şerif Mosque, 2015.

Consultancy for restoration of Historical Sivas Gökmedrese (approximately 1000 years old), 2014-2015.

Fatigue Tests of Cement Based Anchors for Avrasya Tunnel Project, 2014.

Consultancy for Structural Assessment of Historical Egyptian Bazaar, 2014.

Consultancy for restoration of Historical Ibrahim Pasa Palace (Sultanahmet), 2014.

Consultancy for Structural Assessment and Rehabilitation of Historical Sah Sultan Mosque-Eyup, 2014.

Consultancy for High-Rise Nida Kule Tower Building, 2014.

Consultancy for Design of Precast Beams of Madinah Station Building, 2013.

Consultancy for Structural Assessment and Rehabilitation of Historical Kucuk Mecidiye Mosque, 2013.

Consultancy for Structural Assessment and Rehabilitation of Historical Molla Celebi Mosque, 2013.

Consultancy for Structural Assessment and Rehabilitation of Historical Isa Molla Fenari Mosque, 2013.

Consultancy for High-Rise Via Venezia Project, 2012.

Structural Assessment of Dohuk Stadium (Iraq), 2011.

Seismic Safety Assessment of PO Main Building, 2011.

Review of Structural Design of 50-Storey High Nissa Residence Buildings, 2011.

Review of Structural Design of Precast Tribune Beams of Seyrantepe Stadium, 2009, 2010.

Experimental Verification of Prestressed Precast Railway Bridge No:8, Dilovasi Port Facility, 2010.

Review of Design of Precast Prestressed Beams, Piles and Retaining Walls of Bagcilar Edip Iplik Crossing Project, 2009.

Assessment of Precast Prestressed Bridge Beams used in the Project of Harbiye Congress Center, 2009.

Restoration and Retrofit of Kucuk Mustafa Pasa Hamami, 2009.

Analysis of Explosion of MKE Ball Powder Production Unit, Kirikkale, 2008-2009.

Analysis of Explosion at Konya Girls' Dormitory, 2008.

Assessment of Destruction of Shear Walls of HSBC Building, 2008.

Structural Assessment of Several Fire Damaged Industrial Buildings, 2006-2010.

Seismic Safety Assessment of Galatasaray University, Galatasaray Primary School, 2008.

Seismic Safety Assessment of Several Historical Buildings in Karakoy, Beyoglu and Sirkeci, 2006-2011.

Marmaray Projesi Kapsamında Sirkeci İstasyonu Bölgesinde yaklaşık 150 Binanın Statik Durumunun İncelenmesi, 2007, 2008.

Marmaray Projesi Kapsamında Üsküdar Bölgesinde 20 Binanın Statik Durumunun İncelenmesi, 2008.

TEB Merkez Binası Deprem Güvenliği İncelemesi, 2007.

Marmaray Projesi Kapsamında Üsküdar Serdar Apartmanında Taşıyıcı Elemanların Deformasyonlarının Ölçümü, 2007.

Diyarbakır Belediyesi, Sümerpark Sosyal Tesisleri, Deprem Güvenliği İncelemesi ve Güçlendirme Projeleri Danışmanı, 2006.

Kütahya Devlet Hastanesi Deprem Güvenliği İncelemesi Danışmanı, 2006.

Fenerbahçe Şükrü Saraçoğlu Stadı (50.000 kişi kapasiteli), Deprem Güvenliği İncelemesi, 2006.

Tarihi Akaretler Sıraevleri Deprem Güvenliği İncelemesi ve Güçlendirme Projeleri Danışmanı, 2006.

İstanbul Teknik Üniversitesi Rektörlük Binası Deprem Güvenliği İncelemesi, ~5000 m<sup>2</sup>, 2005.

Eczacıbaşı-Baxter Fabrikası Prefabrike Kirişlerinin Güçlendirmesi, ~10.000 m<sup>2</sup>, 2005.

İstanbul Deprem Master Planı, Zeytinburnu Pilot Uygulama Projesi, 2004.

Barış Apartmanı Deprem Güvenliği İncelemesi, Moda, İstanbul, ~2.500 m<sup>2</sup>, 2004.

İstanbul Deprem Master Planı, 2003.

Gülhane Askeri Tıp Akademisi Hastanesi Deprem Güvenliği İncelemesi, İstanbul, ~20.000 m<sup>2</sup>, 2003.

Börekçi Binası Deprem Güvenliği İncelemesi, Kınalıada, İstanbul, ~1.000 m<sup>2</sup>, 2003.

BIP Eğitim Hizmetleri Binası Deprem Güvenliği İncelemesi, Sarıyer, İstanbul, ~1.000 m<sup>2</sup>, 2003.

Fenerbahçe Orduevi Otel Binasının Deprem Güvenliği İncelemesi ve Güçlendirme Projesi, İstanbul, 15.000 m<sup>2</sup>, 2002.

Saffet Çebi Binası Deprem Güvenliği İncelemesi, Çamlıca, İstanbul, ~500 m<sup>2</sup>, 2002.

Saffet Çebi İlkokulu Deprem Güvenliği İncelemesi, Çamlıca, İstanbul, ~2.000 m<sup>2</sup>, 2002.

Faruk Yalçın Binası Deprem Güvenliği İncelemesi, Bayramoğlu, İstanbul, ~1.000 m<sup>2</sup>, 2002.

DSİ Altunizade Lojmanları Deprem Güvenliği İncelemesi, İstanbul, ~2.000 m<sup>2</sup>, 2002.

DSİ Altunizade Laboratuvar Binası Deprem Güvenliği İncelemesi, İstanbul, ~1.500 m<sup>2</sup>, 2002.

DSİ Göztepe Lojmanları Deprem Güvenliği İncelemesi, İstanbul, ~2.000 m<sup>2</sup>, 2002.

Kartal Hükümet Konağı Binaları Deprem Güvenliği İncelemesi ve Güçlendirme Projeleri, İstanbul, ~15.000 m<sup>2</sup>, 2001.

Türk-İş Blokları Deprem Güvenliği İncelemesi ve Güçlendirme Projeleri, İstanbul, ~4.000 m<sup>2</sup>, 2001.

İstanbul Ticaret Odası Kadıköy Şubesi Deprem Güvenliği İncelemesi, İstanbul, ~4.000 m<sup>2</sup>, 2001.

Omsan Depoları Deprem Güvenliği İncelemesi, İstanbul, ~6.000 m<sup>2</sup>, 2000.

3M Yalova Binalarının Deprem Güvenliği İncelemesi, Yalova, ~200 blok, 2000.

İstanbul Erkek Liseliler Vakfı İlköğretim Okulu Deprem Güvenliği İncelemesi ve Güçlendirme Projesi, İstanbul, ~4.000 m<sup>2</sup>, 2000.

Tarayba Tunç Sitesinde Bir Blok için Deprem Güvenliği İncelemesi ve Güçlendirme Projesi, İstanbul, ~2.000 m<sup>2</sup>, 2000.

İstanbul Ticaret Odası Binası Deprem Güvenliği İncelemesi, Eminönü, İstanbul, ~8.000 m<sup>2</sup>, 2000.

Özlem Apartmanı Deprem Güvenliği İncelemesi ve Güçlendirme Projesi, Etiler, İstanbul, ~2.000 m<sup>2</sup>, 2000.

Germirli Binası Deprem Güvenliği İncelemesi ve Güçlendirme Projesi, Etiler, İstanbul, ~1.500 m<sup>2</sup>, 2000.

### **İdari Görevler:**

Türkiye Deprem Vakfı, Deprem Mühendisliği Komitesi Başkan Yardımcılığı, 2015-

İnşaat Mühendisleri Odası Afete Hazırlık ve Müdahale Komisyonu Üyeliği, 2014-

İTÜ İnşaat Fakültesi, Dekan Yardımcılığı 2010-2012

Türkiye Deprem Vakfı, Deprem Mühendisliği Komitesi Yönetim Kurulu Üyeliği, 2015-

İTÜ Bilimsel Araştırma Projeleri Komisyonu Üyesi 2012-2015

İTÜ İnşaat Fakültesi, İnşaat Mühendisliği Bölüm Başkan Yardımcılığı 2010-2010

İTÜ Afet Yönetim Merkezi Yönetim Kurulu Üyesi 2008-

İTÜ Yapı ve Deprem Mühendisliği Laboratuvarı Eş Sorumlusu 2007-2015

İTÜ Afet Yönetimi Yüksek Lisans Programı Yürütme Kurulu Üyesi 2006-2008

İTÜ Afet Yönetim Merkezi, Merkez Kurul Üyesi 2006-2008

İTÜ Yapı Deprem Laboratuvarı Sorumlu Yrd. 1994-2007

İTÜ Deprem Eğitimi Merkezi, Merkez Kurulu ve Yönetim Kurulu Üyesi 2004-2006

İTÜ Deprem Uygulama Araştırma Merkezi Kurulu Üyesi 2001-2004

### **Ödüller:**

ASCE Journal of Composites for Construction, Outstanding Reviewer Award, 2019 (given to 4 persons).

Best Paper Award, Advances in Structural Engineering Journal, 2009.

Financial Assistance Award, 13th World Conference on Earthquake Engineering, Vancouver, Canada, 2004.

Young Researcher Certificate of Excellence, International Symposium on Confined Concrete, Changsha, China, 2004.

**Verdiği lisans ve lisansüstü düzeydeki dersler:**

Reinforced Concrete I  
Introduction to Reinforced Concrete (ITU-SUNY Dual Diploma Program)  
Betonarme I  
Betonarme II  
Prestressed Concrete (Ozyegin University)  
Probability and Statistics  
Introduction to Computers and Information Science  
Introduction to Scientific and Engineering Computation-Fortran  
Yapıların Lifli Polimer Kompozitler ile Güçlendirilmesi (Lisansüstü)  
Nonlinear Behavior of Reinforced Concrete Members (Lisansüstü)  
Post-disaster Housing (Lisansüstü)  
Fire Risks (Lisansüstü)  
Zarar Azaltma Esasları ve Uygulamaları (Lisansüstü)  
Afete Müdahale ve Yönetimi (Lisansüstü)

**Uluslararası Hakemli Dergilerde Yapılan Hakemlik Görevleri:**

ACI Structural Journal (SCI), 2021  
Side-face blowout strength of two-layer headed bars embedded in exterior beam-column joints

ASCE Journal of Composites for Construction (SCI), 2021  
Experimental investigation on the behavior of hollow core glass fiber concrete columns reinforced with GFRP bars

Structures (SCI), 2021  
Experimental and theoretical studies on the performance of RC beams strengthened with FRP and ECC materials

Engineering Structures (SCI), 2021  
A computational framework for large-scale seismic simulations of residential building stock

ASCE Journal of Composites for Construction (SCI), 2021  
Compressive performance of partially CFRP-confined square seawater sea-sand concrete columns

Journal of Earthquake Engineering (SCI), 2021  
Effect of proportioning of lateral stiffness in orthogonal directions on seismic performance of RC buildings

Structural Concrete (SCI), 2021  
Energy-based damage assessment of continuous -span reinforced concrete highway bridges

Construction and Building Materials (SCI), 2021  
Artificial intelligence techniques for prediction of ultimate strain of FRP-confined concrete

The Structural Design of Tall and Special Buildings (SCI), 2021  
Lateral load behaviour of glass fibre reinforced gypsum buildings on stilts

ACI Structural Journal (SCI), 2020  
Experimental study on restraining headed bars in roof-exterior connection

Construction and Building Materials (SCI), 2020  
Investigation into the fatigue life of FRP strengthened concrete structures

ASCE Journal of Composites for Construction (SCI), 2020  
Generalized confinement model of FRP confined concrete circular columns

Structures (SCI), 2020  
Seismic behavior of full-scale steel reinforced recycled concrete columns under high axial compression ratio

ASCE Journal of Structural Engineering (SCI), 2020  
Effectiveness of strengthening RC beams with textile reinforced concrete based on crack evolution analysis

International Journal of Corrosion (ESCI), 2020  
Experimental study on seismic behavior of RC beams confined by corroded stirrups

ASCE Journal of Performance of Constructed Facilities (SCI), 2020  
Service-life performance of underground reinforced concrete utility vaults

ACI Structural Journal (SCI), 2020  
Axial stress-strain of RB joint of PVC-CFRP confined concrete column

Engineering Structures (SCI), 2020  
Numerical modeling and behavior of ductile short-grouted seismic reinforcing bar-to-foundation connections

ASCE Journal of Composites for Construction (SCI), 2020  
Experimental study on the performance of CFRP-strengthened masonry structures under debris flow impacts

ASCE Journal of Structural Engineering (SCI), 2020  
Shear strength prediction method for stud shear connectors embedded in UHPC

Advances in Concrete Construction (SCI), 2020  
Postfire reliability analysis of axial capacity of CFRP retrofitted concrete columns

Structural Concrete (SCI), 2020  
Assessments of building stocks during the January 24, 2020 Sivrice-(Elazığ) earthquake in Elazığ and Malatya, Turkey

ASCE Journal of Composites for Construction (SCI), 2020  
Confinement properties of GFRP-reinforced concrete circular columns under simulated seismic loading

Engineering Structures (SCI), 2020

Shear-flexural retrofit of RC short columns via CFRP composites using novel strengthening techniques

ACI Structural Journal (SCI), 2020  
Bidirectional loading history for seismic testing of 3D frame joints

ASCE Journal of Composites for Construction (SCI), 2020  
Compressive response of PET FRP-confined non-circular RC columns

Engineering Structures (SCI), 2020  
Development of a high-performance hybrid self-centering building for seismic resilience

Engineering Structures (SCI), 2020  
The influence of synthetic fibers on the seismic behavior of reinforced-concrete circular columns

ASCE Journal of Composites for Construction (SCI), 2020  
Shake table studies of 4-span bridge with composite piers

Engineering Structures (SCI), 2020  
Experimental behavior of cracked RC columns strengthened with RC jacketing

Construction and Building Materials (SCI), 2020  
Concretes containing Waste-Based Materials under active confinement

ASCE Journal of Composites for Construction (SCI), 2020  
Eccentric compression behavior of rectangular RC columns wrapped with CFRP jackets under different preloading levels

ASCE Journal of Performance of Constructed Facilities (SCI), 2020  
Investigation of cracks observed on a skewed bridge constructed using self-propelled modular transporters

The Arabian Journal of Science and Engineering (SCI), 2020  
A nonlinear model to analyze the structures pounding forces during earthquakes

Composite Structures (SCI), 2020  
Cyclic stress-strain model for large-rupture strain fiber-reinforced polymer (LRS FRP)-confined concrete-a stiffness-based model

Composite Structures (SCI), 2020  
Bond behaviour of NSM CFRP laminate strip systems in concrete using stiff and flexible adhesives

Earthquake Spectra (SCI), 2020  
The effect of site-specific design spectra on earthquake building parameters at regional basis

Engineering Structures (SCI), 2020  
Seismic behavior of precast concrete beam-column joints with steel strand inserts under cyclic loading

ASCE Journal of Composites for Construction (SCI), 2019  
Effect of load eccentricity on the mechanical response of FRP-confined pre-damaged concrete columns

ASCE Journal of Composites for Construction (SCI), 2019



Experimental investigation on the hybrid FRP-UHPC-Steel double-skin tubular columns under lateral impact loading

ASCE Journal of Composites for Construction (SCI), 2019  
Deformation analysis of weak PFCC column-strong RC beam joints strengthened with CST under axial load

Engineering Structures (SCI), 2019  
Axially loaded masonry columns strengthened with basalt FRCM: Experiments and modelling

ASCE Journal of Composites for Construction (SCI), 2019  
Experimental study on stress-strain relationship of strong PVC-CFRP confined concrete column with weak ring beam joint subjected to axial load

Composite Structures (SCI), 2019  
Numerical prediction of the ultimate condition of circular concrete columns confined with a fiber reinforced polymer jacket

ASCE Journal of Composites for Construction (SCI), 2019  
Static and dynamic performances of concrete-filled braided CFRP tubular protective structures

Soil Dynamics and Earthquake Engineering (SCI), 2019  
Seismic failure modes identification method of RC columns based on Bayesian theory

ACI Structural Journal (SCI), 2019  
Effect of critical test parameters on the behavior of GFRP-RC slender columns under eccentric load

Engineering Structures (SCI), 2019  
Corrosion effects on the seismic response of existing RC frames designed according to different building codes

Structures (SCI), 2019  
Cyclic behavior of sulfate-damage reinforced concrete beam-column joints repaired with FRP composites

ASCE Journal of Composites for Construction (SCI), 2019  
Axial impact behavior of FRP-confined concrete stub columns with square and circular cross-section

ASCE Journal of Composites for Construction (SCI), 2019  
Retrofitting of pre-damaged soft-story RC frame using carbon fiber-reinforced polymer jacketing

Construction and Building Materials (SCI), 2019  
Reversible FRP-confinement techniques for masonry columns

ACI Structural Journal (SCI), 2019  
Seismic behavior of GFRP-RC exterior beam-column-slab connections

Structures (SCI), 2019  
Application of HPFRCC materials with different fiber percentage in exterior beam-column joint connections

Structures and Buildings (SCI), 2019

Strength, ductility and energy capacity of short RC column strengthened with CFRP strip

ASCE Journal of Composites for Construction (SCI), 2019

Vibration serviceability assessment of an FRP footbridge to dynamic loading by pedestrians and joggers

Engineering Structures (SCI), 2019

Experimental investigation and seismic vulnerability assessment of rectangular bridge piers retrofitted with ultrahigh-performance concrete jackets

Frontiers in Built Environment (Section: Earthquake Engineering), 2019

Lessons learnt from the 2009 Padang Indonesia, 2011 Tohoku Japan and 2016 Muisne Ecuador earthquakes

ASCE Journal of Composites for Construction (SCI), 2019

Experimental and analytical studies on concrete-filled triaxially-braided FRP structures under static loading

Composite Structures (SCI), 2019

Numerical modelling of FRCM strengthening of clay brick walls for out-of-plane loads

Earthquake Engineering and Engineering Vibration (SCI), 2019

Nonlinear seismic assessment of an existing masonry structure retrofitting by reinforced concrete elements

Engineering Structures (SCI), 2019

BTRC-confined masonry columns under axial loads: experimental results and analytical model

The Structural Design of Tall and Special Buildings (SCI), 2019

Experimental and numerical investigation on the effects of using fiber reinforced concrete on seismic performance of concrete filled double steel plate (CDSP) shear walls

ASCE Journal of Materials in Civil Engineering (SCI), 2019

Evaluation of existing stress-strain models and modeling of PET FRP-confined concrete

ACI Structural Journal (SCI), 2018

Effect of joint hoops on seismic behavior of wide beam-column joints

Advances in Concrete Construction (SCI), 2018

Experimental and numerical investigation of strength enhancement of T-joint using flat steel

ASCE Journal of Composites for Construction (SCI), 2018

Response of pressurized GFRP pipe subject to vertical ground deformation with varied internal pressure

ASCE Journal of Structural Engineering (SCI), 2018

Fatigue flexural analysis of concrete beams reinforced with hybrid GFRP and steel bars

ASCE Journal of Composites for Construction (SCI), 2018

Fundamental mechanics for simulating the passive confinement of concrete in rectangular RC sections

Advances in Civil Engineering (SCI), 2018

Numerical simulation on the masonry-infilled RC-frame structures considering the connection types under lateral reversed cyclic load

ASCE Journal of Composites for Construction (SCI), 2018  
Experimental investigation into large scale PT beams strengthened in shear using FRP and patch anchors

Construction and Building Materials (SCI), 2018  
Compressive behavior of FRP-confined rubber concrete

Engineering Science and Technology, An International Journal (ESCI), 2018  
Development of seismic fragility curves of buildings' as-built plan of Adamson University

The Structural Design of Tall and Special Buildings (SCI), 2018  
Assessment of performance criteria of reinforced concrete beams retrofitted with FRP fabrics subjected to extreme impulsive loading

ACI Structural Journal (SCI), 2018  
Seismic behavior of CFRP-strengthened reinforced concrete with various anchor systems

ASCE Journal of Composites for Construction (SCI), 2018  
Strain estimation models for confined concrete cylinders

Bulletin of New Zealand Society of Earthquake Engineering, 2018  
Comparative study on acceptance criteria for non-ductile reinforced concrete columns

ASCE Journal of Composites for Construction (SCI), 2018  
Review of experimental research on seismic retrofit schemes with FRP for RC beam-column joints

The Arabian Journal of Science and Engineering (SCI), 2018  
The effect of GFRP strip patterns and locations on the efficiency of NSM technique to upgrade the flexural strength of RC beams

ACI Structural Journal (SCI), 2018  
Seismic performance of RC intermediate short columns failed in shear

ASCE Journal of Structural Engineering (SCI), 2018  
Experimental Investigation on Axial Compressive Behavior of Large-Scale Circular Concrete Columns Confined by Pre-stressed CFRP Strips

Soil Dynamics and Earthquake Engineering (SCI), 2018  
A model-based data-interpretation framework for post-earthquake building assessment with scarce measurement data

Polymer Composites (SCI), 2018  
Bond-slip behavior between GFRP bars and mortar based on pull-out tests

Construction and Building Materials (SCI), 2018  
Compressive behavior of double-tube concrete columns with a square outer FRP tube and a high-strength circular inner steel tube

KSCE Journal of Civil Engineering (SCI), 2018  
Experimental study of the effect of the slab discontinuities on earthquake behavior in buildings

Journal of Earthquake Engineering (SCI), 2018  
Failure analysis of earthen, masonry and RCC buildings during 3 January 2017 Tripura Earthquake, India

Construction and Building Materials (SCI), 2018  
Methods to improve the shear behavior of columns in masonry infilled RC frames under lateral loads

ASCE Journal of Composites for Construction (SCI), 2018  
Seismic performance improvement of GFRP-RC structures

Gazi University Engineering-Architecture Faculty Journal (SCI), 2018  
Comparison of tier 2 evaluation methods for reinforced concrete buildings and an alternative method

ACI Structural Journal (SCI), 2018  
Square concrete columns strengthened by reactive powder concrete and FRP

The Arabian Journal of Science and Engineering (SCI), 2018  
Finite element modeling and analytical validation of CFRP strengthened reinforced concrete columns with inferior concrete mix

Construction and Building Materials (SCI), 2018  
Compressive behavior of large rupture strain FRP-confined concrete-encased steel columns

Journal of Earthquake Engineering (SCI), 2018  
An alternative approach to predict preliminary seismic performance assessment of existing reinforced concrete buildings

Soil Dynamics and Earthquake Engineering (SCI), 2018  
Effects of bond-slip and masonry infills interaction on seismic performance of older RC frame structures

Engineering Structures (SCI), 2017  
Behavior of large-scale FRP-confined rectangular RC columns under axial compression

International Journal of Earthquake and Impact Engineering, 2017  
On sustainable design against rocking

ACI Structural Journal (SCI), 2017  
Seismic Behavior of Exterior Beam-Column Joints with High-Strength Materials and Steel Fibers

International Journal of Concrete Structures and Materials (SCI), 2017  
Effects of variation of axial load on the seismic performance of shear deficient RC exterior BCJs

New Zealand Society of Earthquake Engineering Bulletin, 2017  
Simplified moment-curvature relationship in analytical form for circular RC sections

Composite Structures (SCI), 2017  
Design oriented model for strengthening of T-shaped beam-column joints in reinforced concrete frames

Soil Dynamics and Earthquake Engineering (SCI), 2017  
Seismic performance of the spatial model of a new precast concrete shear wall structure

Structures and Buildings (SCI), 2017  
FE modelling assumptions impact on seismic demands of building

Soil Dynamics and Earthquake Engineering (SCI), 2017  
Seismic behaviour of corroded reinforced concrete short columns in an over 20-year building structure

Soil Dynamics and Earthquake Engineering (SCI), 2017  
Post-earthquake reconstruction: A study on the factors influencing demolition decisions after 2009 L'Aquila earthquake

ACI Structural Journal (SCI), 2017  
Effect of GFRP reinforcement ratio on the axial–flexural strength of RC columns

Structures (ESCI), 2017  
Seismic behaviour of under confined square reinforced concrete columns

Engineering Structures (SCI), 2017  
An explicit analytical model for seismic performance of unbonded post-tensioned precast segmental rocking hollow piers

Journal of Earthquake Engineering (SCI), 2017  
Seismic performance of reinforced concrete buildings with vertical mass irregularity designed to Turkish Seismic Code

Engineering Structures (SCI), 2017  
Experimental assessment and numerical modelling of exterior non-conforming beam-column joints with plain bars

ASCE Journal of Composites for Construction (SCI), 2017  
Monotonic and cyclic axial compressive behavior of CFRP-confined large-scale rectangular RC columns

The Structural Design of Tall and Special Buildings (SCI), 2017  
Seismic retrofitting of old RC columns with different lap splices by NSM GFRP and steel bars

ACI Structural Journal (SCI), 2017  
Effects of confinement in circular hollow columns

Frontiers in Materials, section Structural Materials, 2017  
RC beam-column joints strengthened with composite materials

ASCE Journal of Structural Engineering (SCI), 2017  
Force transfer mechanism of RC beam strengthened in shear with steel plate concrete composite technique

Construction and Building Materials (SCI), 2017  
Modelling of NSM CFRP strips embedded in concrete after exposure to elevated temperature using epoxy adhesives

Construction and Building Materials (SCI), 2017  
Experimental and numerical study of strengthening of heat-damaged RC beams using NSM CFRP strips

Composite Structures (SCI), 2017  
Experimental and numerical studies of cyclic behavior of confined polymer concrete

Soil Dynamics and Earthquake Engineering (SCI), 2017

Case studies on non-structural elements of RC buildings during the 2003 Bingol and 2011 Van earthquakes in Turkey

ASCE Journal of Structural Engineering (SCI), 2017  
Seismic shear forces in post-tensioned hybrid precast concrete walls

Engineering Failure Analysis (SCI), 2017  
The structural failures of historical masonry minarets in Bursa, Turkey

Advances in Structural Engineering (SCI), 2017  
Research on seismic performance of civil structures using recycled materials

European Journal of Environmental and Civil Engineering (SCI), 2017  
Combining seismic retrofit with energy refurbishment for the sustainable renovation of RC buildings: a proof of concept

Construction and Building Materials (SCI), 2017  
Modeling the axial compressive stress-strain behavior of CFRP-confined rectangular RC columns under monotonic and cyclic loading

ACI Structural Journal (SCI), 2016  
Analysis-oriented stress-strain model for concrete confined with FRP spirals

Advances in Structural Engineering (SCI), 2016  
Axial load behavior and strength of tube confined steel reinforced short columns with ultra-high strength concrete

Engineering Structures (SCI), 2016  
A flexure-shear Timoshenko fiber beam element based on softened damage-plasticity model

The Arabian Journal of Science and Engineering (SCI), 2016  
Mapping the industrial perception of delay data through importance rating

Engineering Structures (SCI), 2016  
Study on stress-strain relation of concrete confined by CFRP under preload

Advances in Civil Engineering (ESCI), 2016  
Variational assessment of seismic parameters for reinforced concrete foundation and its gap to the barrier element

The Arabian Journal of Science and Engineering (SCI), 2016  
Numerical investigation of damaged retrofitted bridge pier under the action of seismic loading

Disasters (SSCI), 2016  
Estimating the mitigation effect of Tokai Earthquake measures on housing damage: A counterfactual approach

Journal of Building Engineering, 2016  
Retrofitting of RCC staging of an overhead water tank - A case study

Cankaya University Journal of Science and Engineering, 2016  
The performance of reinforced concrete buildings with steel bracing

Engineering Structures (SCI), 2016

Component and system level modeling of reinforced masonry buildings under lateral loading

New Zealand Society of Earthquake Engineering Bulletin, 2016  
Strategies for seismic upgrading of pairs of buildings in a historic precinct

ACI Structural Journal (SCI), 2016  
A new technique for the seismic retrofit of slab-column connections

ASCE Journal of Composites for Construction (SCI), 2016  
Effect of load path on behaviour of FRP confined concrete columns

Engineering Structures (SCI), 2016  
Fiber based damage analysis of reinforced concrete bridge piers

Structural Engineering and Mechanics (SCI), 2016  
Experimental and numerical performance evaluations of precast beam-column connections

Gazi University Engineering-Architecture Faculty Journal (SCI), 2016  
Investigation of precast new diagonal concrete panels in strengthened infilled reinforced concrete frames

Disasters (SSCI), 2016  
Should Beirut be ranked among the World's most earthquake-prone cities?

European Journal of Environmental and Civil Engineering (SCI), 2016  
Integrated architectural, energy and seismic renovation of the reinforced concrete building stock targeting sustainability and resilience

ASCE Journal of Structural Engineering (SCI), 2016  
Experimental research on seismic behavior of reinforced concrete columns strengthened with TRC under corrosion environment

Journal of Reinforced Plastics and Composites (SCI), 2016  
Eccentricity-based design-oriented model of FRP-confined concrete for evaluation of load-carrying capacity of RC rectangular columns

Engineering Structures (SCI), 2016  
Influence of FRP anchor configuration on the behavior of FRP plates externally bonded on concrete members

KSCE Journal of Civil Engineering (SCI), 2016  
Nonlinear damage accumulation of concrete subjected to variable amplitude fatigue loading

Shock and Vibration (SCI), 2016  
Comparison on the horizontal behaviors of lattice shaped diaphragm wall and pile group under static and seismic loads

ACI Structural Journal (SCI), 2016  
Failure envelope of circular concrete columns reinforced with GFRP bars and spirals

Construction and Building Materials (SCI), 2016  
Experimental investigation into the use of NSM FRP to increase the torsional resistance of RC beams using epoxy resins and cement-based adhesives

Engineering Structures (SCI), 2016

Analysis of reinforced concrete beams strengthened using concrete jackets

ASCE Journal of Structural Engineering (SCI), 2016

Finite element modeling of normal and high-strength concrete under uni-, bi- and triaxial compression

Engineering Structures (SCI), 2015

Real-time hybrid simulation of a shear building with a uni-axial shake table

Engineering Structures (SCI), 2015

Seismic behavior of deficient reinforced concrete bridge piers confined with FRP-a fractional factorial analysis

Construction and Building Materials (SCI), 2015

CFRP confinement of circular concrete columns affected by alkali-aggregate reaction

Gazi University Engineering-Architecture Faculty Journal (SCI), 2015

Determination of elasticity modulus of low strength concrete (in Turkish)

Construction and Building Materials (SCI), 2015

Unified model for evaluating ultimate strain of FRP confined concrete columns based on energy method

Engineering Structures (SCI), 2015

Collapse analysis of slender masonry barrel vaults

ASCE Journal of Composites for Construction (SCI), 2015

Influence of FRP Wrapping on Reinforcement Performances at Lap Splice Locations in RC Columns

Earthquake Engineering and Structural Dynamics (SCI), 2015

Seismic Response Estimation Method for Earthquake-Damaged RC Buildings

ACI Structural Journal (SCI), 2015

Seismic repair of severely damaged precast bridge columns

Journal of Civil Structural Health Monitoring, 2015

Long term structural monitoring of the damaged Basilica S. Maria di Collemaggio through a low-cost wireless sensor network

Engineering Structures (SCI), 2015

Nonlinear seismic model of reinforced concrete cores including torsion

Construction and Building Materials (SCI), 2015

Effect of CFRP properties on the bond characteristics between steel and CFRP laminate under quasi-static loading

Earthquake Engineering and Engineering Vibration (SCI), 2015

Modelling beam-to-column joints in seismic analysis of RC frames

KSCE Journal of Civil Engineering (SCI), 2015

Seismic response of buildings designed to different force reduction factors

The Arabian Journal of Science and Engineering (SCI), 2015

Retrofitting of cracked beams in flexure using FRP materials: Comparison of CFRP sheets and GFRP strips



Engineering Structures (SCI), 2015

Unified cyclic stress-strain model for FRP-confined concrete circular, square and rectangular prisms

Turkish Journal of Engineering and Environmental Sciences (EI), 2015

Evaluation of the effects of stirrup spacing and buckling of steel reinforcing bars on the capacity of RC columns

Engineering Structures (SCI), 2015

Seismic performance of high-strength fiber reinforced concrete beam-columns with high-strength steel

ASCE Journal of Structural Engineering (SCI), 2015

Analytical study on the seismic performance of steel braced frames with masonry infill

Iranian Journal of Science and Technology (SCI), 2015

Experimental investigation of bond-slip characteristics of steel reinforcing bar in low strength concrete

Engineering Structures (SCI), 2015

Experimental investigation of cavitation in elastomeric seismic isolation bearings

ASCE Journal of Structural Engineering (SCI), 2015

Longitudinal strengthening of columns with CFRP composites and stainless steel. cyclic behavior

Materials and Structures (SCI), 2015

Experimental and non-linear finite element studies of RC beam-column joints strengthened with ferrocement jackets

Engineering Structures (SCI), 2015

Plastic hinge length in reinforced concrete members: A state-of-the-art report

Engineering Structures (SCI), 2015

Flexural performance of concrete beams reinforced with glass fiber reinforced polymer bars

Advances in Structural Engineering (SCI), 2015

Scale effect on CFRP strengthening of infilled reinforced concrete frames

Disasters (SSCI), 2015

Speed or deliberation – a comparison of post-disaster recovery in Japan, Turkey and Chile

ACI Structural Journal (SCI), 2014

Influence of high-strength bars on shear response of nuclear power plant wall elements

Materials and Structures (SCI), 2014

An anchoring element for prestressed FRP reinforcement-Simplified design of the anchoring area

Engineering Structures (SCI), 2014

A theoretical-experimental analysis of beam behavior in structural masonry

Construction and Building Materials (SCI), 2014

Influence of concrete age on stress-strain behavior of FRP-confined normal and high-strength concrete

ASCE Journal of Composites for Construction (SCI), 2013  
Analysis-oriented stress-strain model for concrete under combined FRP-steel confinement

Earthquake Engineering and Structural Dynamics (SCI), 2014  
Tests on cyclic behavior of reinforced concrete frames with brick infill

ASCE Journal of Structural Engineering (SCI), 2014  
A macro multifan finite element for seismic analysis of masonry buildings

The Arabian Journal of Science and Engineering (SCI), 2014  
Seismic safety of a historical masonry minaret using its experimental and numerical dynamic characteristics

Advances in Mechanical Engineering, (SCI), 2014  
Effects on physical and mechanical properties of thermochemical treated kenaf fibres composite board

KSCE Journal of Civil Engineering (SCI), 2014  
Comparison of retrofit methods for electrical systems based on their seismic behavior

Australian Journal of Civil Engineering, 2014  
Experimental and analytical investigation on the repair of damaged concrete beams with CFRP

ASCE Journal of Structural Engineering (SCI), 2014  
Investigation of the influence of application path of confining pressure: Tests on actively confined and FRP confined concretes

ASCE Journal of Structural Engineering (SCI), 2014  
Behavior of CFRP strengthened reinforced concrete multicell box girders under torsion

Engineering Structures (SCI), 2014  
Structural performance of confined masonry retrofitted using ferrocement and GFRP under in-plane cyclic loading

Computers and Concrete (SCI), 2014  
Seismic rehabilitation of substandard RC columns with partially deteriorated concrete using CFRP composites

Disasters (SSCI), 2014  
Seismic vulnerabilities and risks for urban mitigation planning in Turkey

Engineering Structures (SCI), 2014  
Experimental cyclic behaviour of RC columns with plain bars-Eurocode 8 improvement propose

Advances in Structural Engineering (SCI), 2014  
Performance of steel strip confined (SSC) RC columns

New Zealand Society of Earthquake Engineering Bulletin, 2014  
Material properties of existing unreinforced clay brick masonry buildings in New Zealand

The Arabian Journal of Science and Engineering (SCI), 2014

Nonlinear finite element analysis of RC exterior beam-column joints under seismic loading

New Zealand Society of Earthquake Engineering Bulletin, 2014  
Ring spring dampers: Passive control system for seismic protection of structures

Materials and Structures (SCI), 2014  
FRP confinement of masonry: analytical modelling

Composite Structures (SCI), 2013  
Behavior of hollow and concrete-filled FRP-HSC and FRP-HSC-Steel composite columns subjected to concentric compression

ASCE Journal of Composites for Construction (SCI), 2013  
Reinforced concrete columns of square section lightly confined by GFRP straps

Construction and Building Materials (SCI), 2013  
Influence of silica fume on stress-strain behavior of FRP-confined HSC

Construction and Building Materials (SCI), 2013  
Compression behavior of concrete columns confined by high strength steel wire

The Arabian Journal of Science and Engineering (SCI), 2013  
Strengthening of reinforced concrete beams using external steel members

ASCE Journal of Performance of Constructed Facilities  
Crack assessment of New Galata bascule-type steel bridge

Structural Engineering and Mechanics (SCI), 2013  
2011 Van (Turkey) earthquakes and damages to reinforced concrete buildings

Materials and Design (SCI), 2013  
Influence of silica fume on stress-strain behavior of FRP-confined HSC materials and design

Advances in Structural Engineering (SCI), 2013  
Incremental dynamic analysis of highway bridges with novel shape memory alloys

KSCE Journal of Civil Engineering (SCI), 2013  
Seismic performance of masonry strengthened with steel strips

Materials and Structures (SCI), 2013  
FRP-HSC-Steel composite columns: Behavior under monotonic and cyclic axial compression

Journal of Reinforced Plastics and Composites (SCI), 2013  
Mechanical response and elastic-plastic damage constitutive equation of SFRC under repeated loading and unloading cycles

Advances in Structural Engineering (SCI), 2013  
A simplified displacement-based probabilistic approach for structural vulnerability assessment

Soil Dynamics and Earthquake Engineering (SCI), 2013  
Curvature ductility of columns and structural displacement ductility in RC frame structures subjected to ground motions

International Journal of Forensic Engineering, 2013  
Experimental investigation on GFRP strengthened RC piles under lateral loads

Soil Dynamics and Earthquake Engineering (SCI), 2013  
Seismic performance of circular RC bridge columns with flexure-torsion interaction

Iranian Journal of Science and Technology (SCI), 2013  
Structural response of reinforced concrete wide beams reinforced with lattice girders

ASCE Journal of Materials in Civil Engineering (SCI), 2013  
Characterization of debonding in FRP-strengthened masonry using the acoustic emission technique

Soil Dynamics and Earthquake Engineering (SCI), 2013  
Effect of soil depth on inelastic seismic response of structures

ACI Special Publication (2013)  
Finite element modeling of shear deficient RC beams strengthened with NSM CFRP rods under cyclic loading

ACI Special Publication (2013)  
Modeling of RC beam strengthened with CFRP laminates and exposed to elevated temperatures

Engineering Structures (SCI), 2013  
A new ductile moment-resisting connection for precast concrete frames in seismic regions: An experimental investigation

The Arabian Journal of Science and Engineering (SCI), 2013  
Strut-and-Tie Model Improvement for CFRP-Strengthened Reinforced Concrete Deep Beams

Soil Dynamics and Earthquake Engineering (SCI), 2013  
Comparative analysis of RC irregular buildings designed according to different seismic design codes

The Arabian Journal of Science and Engineering (SCI), 2013  
Quantitative evaluation of seismic vulnerability of reinforced concrete bridge pier's using the pushover method by theory of distributed plasticity and C/D method and compare their results

Construction and Building Materials (SCI), 2013  
Confinement of concrete by high performance ferrocement

ASCE Journal of Structural Engineering (SCI), 2013  
Effect of cyclic loading frequency on behaviour of RC beam-column connections

Engineering Structures (SCI), 2013  
Models for FRP-wrapped rectangular RC columns with continuous or lap-spliced bars

Engineering Failure Analysis (SCI), 2013  
Identification of Seismic Failure Modes of URM Infilled RC Frame Buildings

Earthquake Spectra (SCI), 2013  
Local Strengthening of RC Structures as a Strategy for Seismic Risk Mitigation at Regional Scale

Materials and Structures (SCI), 2013

Structural response of reinforced concrete wide beams reinforced with lattice girders

ASCE Journal of Composites for Construction (SCI), 2013

Cyclic compressive behavior of concrete confined with large rupture strain FRP composites

The Arabian Journal of Science and Engineering (SCI), 2013

A review of causes of damage on earthquake damaged reinforced concrete and masonry buildings

Journal of Composites Part B (SCI), 2012

Influence of concrete strength and confinement method on axial compressive behavior of FRP-confined high- and ultra-high strength concrete

The Arabian Journal of Science and Engineering (SCI), 2012

Introducing building casketing as a new technique for seismic retrofit of existing buildings with endurance time method

KSCE Journal of Civil Engineering (SCI), 2012

Investigation of water tank as TLD for vibration control of frame structures under seismic excitations

Advances in Structural Engineering (SCI), 2012

Seismic Retrofit of Rectangular RC Columns using CFRP Wrapping Combined with CFRP Anchors

KSCE Journal of Civil Engineering (SCI), 2012

Experimental behavior of stapled strip confined RC columns under axial loads

The Arabian Journal of Science and Engineering (SCI), 2012

Performance of exterior beam-column joint using different joint core details with X-bar under reversal loading

European Journal of Environmental and Civil Engineering (SCI), 2012

Earthquake engineering for the design of houses in a desert town region

ASCE Journal of Structural Engineering (SCI), 2012

Finite element simulation of impact hammer modal testing of elastic beams subject to progressive damage and verification

ASCE Journal of Structural Engineering (SCI), 2012

A redundancy model of a single-layer dome under earthquake action based on response sensitivity with verification

Turkish Journal of Engineering and Environmental Sciences (EI), 2012

A new approach for evaluation and development of the behavior factor recommended by Moroccan seismic code RPS2000: LEK approach

The Arabian Journal of Science and Engineering (SCI), 2012

Seismic evaluation of damaged circular bridge piers of low-strength concrete retrofitted with carbon fiber reinforced polymers

Materials and Structures (SCI), 2012

Seismic Performance of Prestressed High-Strength Concrete Piles under Low-Reversed Cyclic Loading

The Arabian Journal of Science and Engineering (SCI), 2012  
Non-destructive testing techniques to help the restoration of frescoes

Engineering Failure Analysis (SCI), 2012  
The Mine Collapse at Lo Tacon, Possible Cause of the Torre Pacheco Earthquake

The Arabian Journal of Science and Engineering (SCI), 2012  
Strength Prediction of Continuous R/C Deep Beams using the Strut-and-Tie Method

The Arabian Journal of Science and Engineering (SCI), 2012  
An Analytical Approach for Improved Stiffness Matrix of Variable Cross-Section Bars with Wide Supports

Composite Structures (SCI), 2012  
A Study of the use of High Functionality-Based Resin for Bonding between CFRP and Concrete under Harsh Environmental Conditions

Bulletin of Earthquake Engineering (SCI), 2012  
Failure Analysis of Infilled Structures

ASCE Journal of Structural Engineering (SCI), 2012  
Experimental Behavior of Non-conforming RC Columns with Plain Bars under Constant Axial Load and Biaxial Bending

ASCE Journal of Composites for Construction (SCI), 2012  
Axial Behavior of Square Reinforced Concrete Columns Strengthened with Lightweight Concrete Elements and Unbonded GFRP Wrapping

The Arabian Journal of Science and Engineering (SCI), 2012  
Seismic Evaluation of Reinforced Concrete Frames using Pushover Analysis

Journal of Composites Part B (SCI), 2011  
Slenderness Effect of Circular Concrete Specimens Confined with SFRP Sheets

ACI Structural Journal (SCI), 2011  
Behaviour of Circular Reinforced Concrete Columns under Axial Compression

Advances in Structural Engineering (SCI), 2011  
Employing Foundation Nonlinearity to Mitigate Seismic Demand in Superstructure

ACI Structural Journal (SCI), 2011  
Material Model Incorporating Buckling for Reinforcing Bars in RC Columns

ACI Structural Journal (SCI), 2011  
Simulation of Reinforcing Bar Buckling in Reinforced Concrete Columns

Engineering Failure Analysis (SCI), 2011  
Determination of displacement and failure loads formed in reinforced concrete construction with overhang and without overhang by ANN modelling

The Arabian Journal of Science and Engineering (SCI), 2011  
Assessment of Shear Wall Quantity in Seismic-resistant Design of Reinforced Concrete Buildings

ASCE Journal of Structural Engineering (SCI), 2011  
Seismic In-Plane Performance of Retrofitted Masonry Walls

ASCE Journal of Structural Engineering (SCI), 2011  
Strength Distribution for Minimum Torsional Response of Asymmetric Structures

Advances in Structural Engineering (SCI), 2011  
An Investigation on Seismic Performance of RC Columns Using Finite Element Analyses

Advances in Structural Engineering (SCI), 2011  
Dimensioning a Masonry Construction under Earthquake Effect with Computer Program

ASCE Journal of Composites for Construction (SCI), 2011  
Confinement Model for Rectangular Concrete Block Masonry Prisms Wrapped with CFRP

Construction and Building Materials (SCI), 2011  
Seismic Retrofit of Square RC Columns with Polyethylene Terephthalate (PET) Fibre Reinforced Polymer Composites

The Arabian Journal of Science and Engineering (SCI), 2011  
Confined Compressive Strength of Post-Heated Reinforced Concrete Square Columns Wrapped with GFRP

Advances in Structural Engineering (SCI), 2011  
Inelastic Design of Medium-Axially Loaded High-Strength Concrete Columns in Moderate Seismicity Regions

Turkish Journal of Engineering and Environmental Sciences (EI), 2011  
Cyclic Analysis of RC Frames with Respect to Employ Different Methods in Fiber Model for Considering Bond Slip Effect

Bulletin of Earthquake Engineering (SCI), 2011  
Fragility Curves for Mid-Rise Reinforced Concrete Frames in Low-Seismicity Areas

The Arabian Journal of Science and Engineering (SCI), 2011  
Pushover Analysis of Steel Strengthened Masonry

ACI Materials Journal (SCI), 2011  
Evaluation of Reinforced HSCC (140 MPa) Columns at High Temperature (Fire Conditions)

The Arabian Journal of Science and Engineering (SCI), 2011  
Numerical Analysis of Thermal Behavior of Concrete Cover around FRP-Bars in Cold Region

ASCE Journal of Materials in Civil Engineering (SCI), 2011  
Behavior of Ultra High Performance Concrete Confined by Fiber Reinforced Polymers

ASCE Journal of Structural Engineering (SCI), 2010  
Experimental Resistance Functions for Composite-Jacketed Concrete Columns

The Arabian Journal of Science and Engineering (SCI), 2010  
Experimental and Analytical Behavior Investigation of Solid Masonry Walls under in plane Loading Conditions

Australian Journal of Civil Engineering, 2010  
Strength Properties of Lightweight Concrete Made with LECA Grading

Advances in Structural Engineering (SCI), 2010  
Experimental Study on PVC-FRP Confined Concrete Column Subjected to Axial Compression

Advances in Structural Engineering (SCI), 2010  
Creep of High-Strength Concrete Columns Confined by AFRP under Axial Load

Turkish Journal of Engineering and Environmental Sciences (EI), 2010  
Cracks in Base Restrained Plain and Reinforced Concrete Walls

The Arabian Journal of Science and Engineering (SCI), 2010  
A Comparative Seismic Performance Between Precast Hollow Core Walls and Conventional Walls using Incremental Dynamic Analysis

Computers and Concrete (SCI), 2010  
Non-linear Finite Element Modelling of FRP-strengthened RC Beam-column Connections

Advances in Structural Engineering (SCI), 2010  
Seismic Retrofit of Deficient RC Structures with Internal Steel Frames

Advances in Structural Engineering (SCI), 2010  
Strength and Ductility of Spirally Reinforced Square Concrete Columns with and without Internal Fibers

ASCE Journal of Materials in Civil Engineering (SCI), 2010  
Seismic Strengthening of Masonry Infilled RC Frames with Steel Fiber Reinforced Mortar

International Journal of Materials and Structural Integrity, 2010  
A Simplified Theoretical Model for the Evaluation of Structural Behaviour of Masonry Spandrels

The Arabian Journal of Science and Engineering (SCI), 2010  
Seismic Protection of Existing RC Buildings Using Fuse Elements

Advances in Structural Engineering (SCI), 2010  
Sustained-Load Effects on FRP Confined Concrete Stress-Strain Behavior

ACI Structural Journal (SCI), 2010  
Evaluation of Plastic Rotation Demands for Earthquake Design of Reinforced Concrete Beams

ASCE Journal of Composites for Construction (SCI), 2010  
Near-surface-mounted Composite System for Repair and Strengthening of Reinforced Concrete Columns Subjected to Axial Load and Biaxial Bending

Engineering Structures (SCI), 2010  
FRP Strengthening of Existing Reinforced Concrete Columns Against Bar's Buckling-Strength Prediction of Engineering Structures

Bulletin of Earthquake Engineering (SCI), 2010  
Nonlinear Responses of Reinforced Concrete Buildings to Pulse Characteristics and Residuals of Near-Fault Ground Motions

Advances in Structural Engineering (SCI), 2010  
Fictitious Crack Model for Steel-Carbon Hybrid FRCCs

Australian Journal of Civil Engineering, 2010  
Shrinkage and Creep behaviors of Ultra High Performance Fiber Reinforced Concrete under Compressive Stresses

ACI Structural Journal (SCI), 2009



Relationships between Strain, Curvature, and Drift in RC Moment Frames in Support of PBDS

Australian Journal of Structural Engineering, 2009  
A Study on HSC with GFRP Confinement

Soil Dynamics and Earthquake Engineering (SCI), 2009  
A Methodology for Performance Evaluation of Buildings for Site-Specific Earthquake

Australian Journal of Structural Engineering, 2009  
Behavior of Concrete Slabs Strengthened with FRP

The Arabian Journal of Science and Engineering (SCI), 2009  
Use of CFRP Laminate for Seismic Repairing of Damaged Concrete Beam-Column Connection

ACI Structural Journal (SCI), 2009  
Behavior of Concrete Cylinders and RC Columns Confined by a New Steel Jacketing Method

Journal of Civil Engineering and Management (SCI), 2009  
Cyclic Response of Bare and Infilled RC Frames: Comparison of Experimental versus Numerical Results

ASCE Journal of Structural Engineering (SCI), 2009  
Stress-Strain Behavior of Concrete in Hybrid FRP-Concrete-Steel Double-Skin Tubular Columns

The Arabian Journal of Science and Engineering (SCI), 2009  
Evaluation of Code's Displacement Amplification Factor in order to Determine the Real Lateral Displacement of the Structures

Advances in Structural Engineering (SCI), 2009  
Damage Displacement Estimation of Flexure-Dominant RC Columns

ACI Structural Journal (SCI), 2009  
Shear-Strength Degradation Model for Slender RC Columns Subjected to Cyclic Loading

Engineering Structures (SCI), 2009  
Performance Enhancement of RC Building Columns and Beam-Column Joints through Shotcrete Jacketing

ASCE Journal of Materials in Civil Engineering (SCI), 2008  
Analytical Model for the Bond-Slip Behavior of Corroded Ribbed Reinforcement

ACI Structural Journal (SCI), 2008  
Computation of Development Length for FRP Rebars: A New Design Approach

Advances in Structural Engineering (SCI), 2008  
Experimental Investigation of CFRP Confined Steel Reinforced Concrete Columns with Partial Deteriorated Strength

Bulletin of Earthquake Engineering (SCI), 2008  
Seismic Response of Nonstructural Components in Case of Nonlinear Structures Based on Floor Response Spectra Method

Advances in Structural Engineering, (SCI) 2008

Experimental and Numerical Results from the Seismic Study of a Masonry Bell Tower

ACI Structural Journal (SCI), 2008

Effect of Axial Compression Load on Seismic Behavior of Non-seismically Detailed Interior Beam-Wide Column and Beam-Wall Joints

ACI Structural Journal (SCI), 2008

Seismic Performance of Circular High Strength Columns

Construction and Building Materials (SCI), 2008

Evaluation of Repair Materials for Limestone Consolidation in Taposiris Magna Monument

Construction and Building Materials (SCI), 2008

The Effect of Saltwater Spray on Durability of the Ornamental Granite

Advances in Structural Engineering, (SCI), 2008

Effects of Infill Walls on Responses of RC Frames

ASCE Journal of Materials in Civil Engineering (SCI), 2008

Experimental Study of Thermal-Insulated Cement-Based Panels

Advances in Structural Engineering, (SCI), 2008

Seismic Behaviour of a Masonry Bell Tower

Bulletin of Earthquake Engineering (SCI), 2007

Investigation of the Ductility Demand in Multi-Storey Buildings Subjected to Near Field Ground Motions Using Neural Network Approach

ACI Structural Journal (SCI), 2007

An Analytical Model for Pull-out of FRP Rod from Steel Tube Filled with Cement Grout

ACI Structural Journal (SCI), 2007

Effects of Slenderness on Circular FRP Confined Reinforced Concrete Columns

Bulletin of Earthquake Engineering (SCI), 2007

A Study on Response and Mitigation in Multi-Storey Buildings to Near-Fault Ground Motions

ASCE Journal of Materials in Civil Engineering (SCI), 2007

Parametric Studies on Confinement of Concrete Columns Wrapped by Fiber Reinforced Polymer (FRP) Jackets

Gazi University Engineering-Architecture Faculty Journal (EI), 2007

The Effect of Confined Concrete Behavior on Member and Structural System Behavior (in Turkish)

ACI Structural Journal (SCI), 2007

Effect of Axial Compression Load on Seismic Behavior of Interior Beam-Wide Column Joints

Turkish Journal of Engineering and Environmental Sciences (EI), 2006

Structural Engineering Applications of Artificial Neural Networks

ACI Structural Journal (SCI), 2006

Reinforced Concrete Beam-Column Joints-I. Performance of Fresh Specimens

ACI Structural Journal (SCI), 2006

Reinforced Concrete Beam-Column Joints-II. Performance of FRPC Rehabbed Specimens

ASCE Journal of Materials in Civil Engineering (SCI), 2006

The Effects of Water Content and Material Composition on Behavior of Adobes under the Compressive Load

ACI Structural Journal (SCI), 2006

Seismic Behaviour of Two-Bay Two-Story High Performance Concrete Frames

Soil Dynamics and Earthquake Engineering (SCI), 2006

Use of CFRP Laminates for Repairing of Damaged Concrete Beam-Column Joints

ACI Structural Journal (SCI), 2006

FRP Jacketed and Shape-Modified Compression Members: I – Experimental Behavior

ACI Structural Journal (SCI), 2006

FRP Jacketed and Shape-Modified Compression Members: II – Model

ACI Journals (SCI), 2006

Axial Force Transfer via Shear Rings within Cast-in-Steel Shell Piles

ACI Journals (SCI), 2006

Axial Force Transfer Mechanisms within Cast-in-Steel Shell Piles

ACI Structural Journal (SCI), 2005

Seismic Performance of Lower Stories of Mid-Rise RC Frame Buildings

Advances in Structural Engineering, (SCI), 2005

Conceptual Methodology for Relocation of Historical Masonry Monuments

ASCE Journal of Materials in Civil Engineering (SCI), 2005

Strength Assessment and Bonding Study of Anodized Aluminum Short Fiber Reinforced Gypsum Composites

Structural Engineering and Mechanics (SCI), 2005

Shotcrete Jacketing of Reinforced Concrete Columns to Improve Seismic Performance

ASCE Journal of Materials in Civil Engineering (SCI), 2005

Enhancing Bond Strength and Characteristics of Soil-Cement Block Masonry

Advances in Structural Engineering (SCI), 2005

The Seismic Behavior of Reinforced Concrete Columns Jointly Strengthened by Externally Attaching Steel and Wrapping CFRP

ACI Special Publication, 2004

Modeling of Stress-Strain Relationship and Deformability for Confined High-Strength Concrete.

ACI Special Publication, 2004

Experimental Research on a New Type of Steel Tube Confined Concrete Joints

ACI Special Publication, 2004

Debonding Failure of Concrete Beams Confined with CFRP Composites

ACI Special Publication, 2004

Modeling the Stress-Strain Behavior of Confined Concrete Columns

ACI Special Publication, 2004  
Flexural Confinement of Plastic Hinges in Circular Bridge Columns Using Unstressed Prestressing Strand as Transverse Reinforcement

ASCE Journal of Materials in Civil Engineering (SCI), 2004  
Short Fiber Reinforced Geopolymer Composites Manufactured by Extrusion

ASCE Journal of Structural Engineering (SCI), 2004  
Stress-Strain Model for Concrete Confined by FRP Composites

ACI Structural Journal (SCI), 2003  
Seismic Performance of Reinforced Concrete Eccentric Beam-Column Connections with Floor Slabs

ACI Structural Journal (SCI), 2003  
Seismic Shear Strengthening of R/C Beams and Columns with Expanded Steel Plates

Science and Engineering of Composite Materials, 2003  
Shearing Capacity of Masonary Structural Walls Strengthened with CFRP Plates Subjected to Earthquake

ACI Structural Journal (SCI), 2003  
Seismic Shear Strengthening of R/C Columns with Expanded Steel Plates

ACI Structural Journal (SCI), 2002  
Seismic Performance of Reinforced Concrete Eccentric Beam-Column-Slab Connections

ACI Structural Journal (SCI), 2002  
Seismic Evaluation of Existing Buildings by Indo-Japanese and U.S. Methods

ACI Structural Journal (SCI), 2001  
Seismic Performance and Retrofit of Steel Pile to Concrete Cap Connections

### **Dış Hakemlikler:**

**12.** Swiss National Science Foundation, Project Proposal Review-188342, Prestressed iron based shape memory alloy wire confinement for seismic retrofitting of Swiss and Korean infrastructure, Swiss, 2019.

**11.** PhD thesis of A. Cuevas, (supervised by S. Pampanin), Seismic Residual Capacity of Reinforced Concrete Frames, University of Canterbury, New Zealand, 2018.

**10.** PhD thesis of N. Xuefei, (supervised by J.G. Teng), Seismic Retrofit of RC Frames through Beam Weakening and FRP Strengthening, The Hong Kong Polytechnic University, Hong Kong, 2018.

**9.** PhD thesis of C.A. Muir, (supervised by D. Bull and S. Pampanin), Seismic Performance of the Slotted Beam Detail in Reinforced Concrete Moment Resisting Frames, University of Canterbury, New Zealand, 2014.

**8.** PhD thesis of S.R. Abdullah, (supervised by R. Al-Mahaidi), FRP Rehabilitation of AAR-Damaged Concrete Structures, Monash University, Australia, 2013.

**7.** PhD thesis of Y. Helal, (supervised by K. Pilakoutas), Seismic Strengthening of Deficient Exterior RC Beam-Column Sub-assemblages using Post-tensioned Metal Strips, The University of Sheffield, UK, 2012.

6. PhD thesis of S. Hashemi, (supervised by R. Al-Mahaidi), Strengthening of Concrete Structures using Carbon Fiber Reinforced Polymers and Cement Based Adhesives, Monash Univ., Australia, 2012.

5. PhD thesis of R. Shrestha, (supervised by S.T. Smith), Behaviour of RC Beam-Column Connections Retrofitted with FRP Strips, Univ. Of Technology Sydney, Australia, 2009.

4. MSc Thesis of Matthew Ireland, (supervised by S. Pampanin), Development of a Selective Weakening Approach for the Seismic Retrofit of Reinforced Concrete Structural Walls, Univ. of Canterbury, New Zealand, 2007.

3. PhD thesis of R. Apostolska, (supervised by G. Necevska-Cvetanovska, Application of High-strength Concrete in Design of Seismically Resistant Structures, IZIIS, Univ. of Ss. Cyril and Methodius, Macedonia, 2003.

2. Çeşitli TÜBİTAK projelerinde panelistlik ve dış danışmanlık.

1. Reviewer for several projects submitted to Hong Kong Research Grants Council (2 project proposals in 2019, 3 project proposals in 2014, 3 projects in 2013, 2 projects in 2012 and 1 project in 2011).

2019-1. GRF-15210219-Impact of gravity load on reinforced concrete beam-column joints, E.S. Lam.

2019-2- GRF-16211319-Analysis and design of RC wide beam-column joints for seismic resistance, J.S. Kuang.

### **Responsibilities related with Scientific Journals:**

Technical Bulletin, Turkish Chamber of Civil Engineers, (Advisory Board Member, Editorial Board Member, 2010-)

Journal of Civil Structural Health Monitoring, Springer, (Associate Editor, 2013-2018)

New Zealand Society of Earthquake Engineering Bulletin, (Associate Editor, 2013-)

Dicle University Journal of Institute of Natural and Applied Science, (Editorial Board Member, 2014-)

Guest editor, Polymers Journal, SI: Selected Papers from SMAR 2013 Conference, (with Masoud Motavalli), 2014.

Guest editor, Polymers Journal, SI-Topical Collection: Fiber Reinforced Polymers in Structural Engineering, (with Masoud Motavalli), 2014-2016.

Guest editor, SI: Selected Papers from SMAR 2015 Conference, (with Masoud Motavalli), 2016.

Arabian Journal for Science and Engineering, (Subject Editor, 2016-2017)

Guest editor, Bulletin of Earthquake Engineering, SI: Large scale and on-site structural testing for seismic performance assessment (with Khalid Mosalam, Koichi Kusunoki and Michael Fardis), 2017.

International Journal of Earthquake and Impact Engineering, (Regional Editor, 2017-)

ASCE Journal of Composites for Construction, (International Editorial Board member, 2018-)

ASCE Journal of Structural Engineering, (Associate Editor, 2019-)

### **Konferans Düzenleme Kurulu Üyelikleri:**

18<sup>th</sup> Technical Congress, Turkish Chamber of Civil Engineers, 2022.

CICE-2020, 10th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Istanbul, July, 2020/2021 (conference chair).

9th Turkish Conference on Earthquake Engineering, Istanbul, 2020/2021 (co-chair with N. Suna).

Yedinci Ulusal Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, 4-5 Ekim 2019 (member of executive committee).

IWAMISSE 2019, International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, Istanbul, 20 September 2019 (conference chair).

The Fifth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2019, Potsdam, 2019 (co-chair with Prof. Motavalli (EMPA) and Dr. Rosemarie Helmerich (BAM)).

IWAMISSE 2018, International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Seismic Practices, Istanbul, 16 November 2018 (conference chair).

Seismic Loss, Rehabilitation and Post-earthquake Crisis Management of Critical Infrastructure, Istanbul, 20-24 November 2017 (Coordinator with Dr. Hajirasouliha).

Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, 17-18 Kasım 2017.

6<sup>th</sup> International Conference on Preservation and Consolidation of Historical Structures, Trabzon, 2-4 November, 2017.

The Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2017, Zurich, 2015 (co-chair with Prof. Motavalli (EMPA)).

6th International Symposium on Conservation and Consolidation of Historical Structures, Trabzon, November, 2017.

Altıncı Ulusal Yapı Mühendisliği Laboratuvarları Toplantısı, Trabzon, Kasım, 2017.

8th National Conference on Earthquake Engineering, Istanbul, 2015 (co-chair with C. Gokce).

The Third Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2015, Antalya, 2015 (co-chair with Prof. Motavalli (EMPA)).

Beşinci Ulusal Yapı Mühendisliği Laboratuvarları Toplantısı, Kayseri, Mayıs, 2015.

11th International Conference on Advances in Civil Engineering, Istanbul, 2014.

Fifteenth European Conference on Earthquake Engineering, Istanbul, 2014.

The Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2013, Istanbul, 2013 (co-chair with Prof. Motavalli (EMPA)).

Dördüncü Ulusal Yapı Mühendisliği Laboratuvarları Toplantısı, Trabzon, 2013.

Reinforced Concrete Structures Seminar for Prof. Zekai Celep, Istanbul, 2013.

Üçüncü Ulusal Yapı Mühendisliği Laboratuvarları Toplantısı, İzmit, 2011

Istanbul International Conference on Seismic Risk Mitigation, Istanbul, 2010.

Civil Engineering Disaster Mitigation Activities Concerning Earthquake and Tsunami, Istanbul, 2009.

Prof. Berdan, Prof. Aka, Prof. Bilge and Prof. Demir için Betonarme Yapılar Semineri, Istanbul, 2008.

ITU-ELSA Workshop on Prevention of Total Collapse of Existing Low Rise Buildings, Istanbul, 2007.

5. Ulusal Deprem Mühendisliği Konferansı, İstanbul, 2003.

5<sup>th</sup> International Conference on Advances in Civil Engineering, İstanbul, 2002.

Prof.Dr. Kemal Özden'i Anma Semineri, Yapıların Onarım ve Güçlendirilmesi Alanında Gelişmeler, İstanbul, 2002.

3<sup>rd</sup> Japan-Turkey Workshop on Earthquake Engineering, İstanbul, 2000.

### **Uluslararası Konferanslarda Bilim Kurulu Üyeliği:**

Seventh International Conference on Advances in Civil Engineering, Istanbul, Turkey, 2006.

Eighth International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, Patras, Greece, July, 2007.

Sixth National Conference on Earthquake Engineering, İstanbul, Turkey, 2007.

The First Asia-Pacific Conference on FRP in Structures, APFIS 2007, Hong Kong, 2007.

Fifth International Conference on Advanced Composite Materials in Bridges and Structures, Winnipeg, Manitoba, Canada, September, 2008.

Sakarya International Earthquake Engineering Symposium, Sakarya, Turkey, 2009.

The Second Asia-Pacific Conference on FRP in Structures, APFIS 2009, Seoul, Korea, 2009.

Ninth International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, Sydney, Australia, July, 2009.

International Conference UACEG 2009, Science and Practice, Sofia, Bulgaria, October, 2009.

The Third International fib Congress and Exhibition, Washington DC, USA, May-June, 2010.

International Workshop on Civil Structural Health Monitoring-Applications of Monitoring and ACM in the Preservation of Heritage Structures, Ottawa, Canada, June, 2010.

5th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Beijing, September, 2010.

Bilimde Modern Yöntemler Sempozyumu, Diyarbakır, Ekim, 2010.

First Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Dubai, February, 2011.

Seventh National Conference on Earthquake Engineering, Istanbul, Turkey, May-June, 2011.

CICE-2012, 6th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Rome, June , 2012.

The Third Asia-Pacific Conference on FRP in Structures, APFIS 2012, Sapporo, Japan, 2012.

ICACIE, International Conference on Advances in Civil Infrastructure Engineering, Changsha, China, September, 2012.

PLSE-2012, The First International Conference on Performance-based and Life-cycle Structural Engineering, Hong Kong, December, 2012.

ACMBS VI, 6<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Ontario, Canada, 2012.

Conference on Civil Engineering Infrastructure based on Polymer Composites, Krakow, Poland, 2012.

The Third Symposium on Construction Inspection, Diyarbakir, 2013. (National).

The Fourth Symposium on Strengthening of Historical Monuments, Istanbul, 2013. (National).

2013 International Van Earthquake Symposium, Van, 2013.



APFIS-2013, The Fourth Asia-Pacific Conference on FRP in Structures, APFIS 2013, Melbourne, Australia, 2013.

The Fourth International fib Congress, Mumbai, 2014.

CIC-2014, Concrete Innovation Conference, Oslo, 2014.

CICE-2014, 7th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Vancouver, August, 2014.

23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials (ACMSM23), Byron Bay, December, 2014.

ACE 2015, The Symposium, Advances in Civil and Infrastructure Engineering, Vietri sul Mare, June, 2015.

The Fifth Symposium on Strengthening of Historical Monuments, Erzurum, October, 2015. (National).

PLSE 2015, The Second International Conference on Performance-Based and Life-Cycle Structural Engineering, Brisbane, December, 2015.

Joint Conference of The 12th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-12) & The 5th Asia-Pacific Conference on Fiber Reinforced Polymers in Structures (APFIS-2015), Nanjing, December 14-16, 2015.

The Third Symposium on Civil Engineering Education, January, 2016. (National).

The International Conference on Structural Engineering, New Technology and Methods (ICSENM'16), Prague, March 30 - 31, 2016.

Advances in Turkish Seismic Design Code, Prof.Dr. Hasan Boduroglu Symposium, May, 2016.

7<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, ACMBS-VII, Vancouver, August, 2016.

CICE-2016, 8th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Hong Kong, December, 2016.

International Workshop on RC FRP Seismic Retrofitting, Lyon, September, 2016.

CINPAR 2016, XII International Conference on Structural Deficiencies and Rehabilitation, 26-29 October 2016.

ACE 2016, 12th International Conference on Advances in Civil Engineering, Istanbul, 2016.

The International Conference on Building Envelope Systems and Technologies (ICBEST), Istanbul, May, 2017.

6<sup>th</sup> National Conference on Earthquake Engineering and 2<sup>nd</sup> National Conference on Earthquake Engineering and Seismology, Bucharest, June, 2017. (International Advisory Committee Member)

International Conference on Advances and Innovations in Engineering, Elazig, May, 2017.

The 3<sup>rd</sup> International Conference on Protection of Historical Constructions, Lisbon, July, 2017. (International Advisory Board Member)

The 4<sup>th</sup> International Conference on Earthquake Engineering and Seismology, ICEES 2017, Eskisehir, 11-13 October 2017.

6<sup>th</sup> ICAAC, 6<sup>th</sup> International Conference on Autoclaved Aerated Concrete, Potsdam, 4-6 September, 2018.

CICE-2018, 9<sup>th</sup> International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Paris, July, 2018.

SMAR 2019, 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Smart Structures, Potsdam, 27-29 August, 2019.

SEMC 2019, 7<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation, Cape Town, 2-4 September, 2019.

SACEE 2019, First South Asia Conference on Earthquake Engineering, Karachi, 21-22 February, 2019.

SEWC 2019, 7<sup>th</sup> Structural Engineers World Congress, Istanbul, 24-26 April, 2019.

FRPRCS-14 Symposium, 14<sup>th</sup> Fiber Reinforced Polymer Reinforced Concrete Structures Symposium, Belfast, 4-7 June, 2019.

5ICEES 2019, 5<sup>th</sup> International Conference on Earthquake Engineering and Seismology, Ankara, 8-11 October, 2019.

7YMLC, 7<sup>th</sup> Structural Mechanics Laboratories Workshop, Konya, 4-5 October, 2019 (Executive Committee).

PROHITECH 2020, The 4<sup>th</sup> International Conference on Protection of Historical Constructions, Athens, July, 2020. (International Scientific Committee)

17<sup>th</sup> IB2MaC 2020, 17<sup>th</sup> International Brick and Block Masonry Conference (International Reviewer Panel member), Krakow, 5-8 July 2020.

SAFRI-2021, Sustainable Approach for Resilient Infrastructure International Conference (International Advisory Committee member), Hyderabad, 3-4 April, 2021.

### **Konferanslarda Oturum Başkanlığı:**

**43.** 6<sup>th</sup>ICAAC, 6<sup>th</sup> International conference on Autoclaved Aerated Concrete, Sessions: Seismic design and reliability 2 and 3, Potsdam, September, 2018.

**42.** CICE-2018, 9<sup>th</sup> International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Session: Seismic behavior, Paris, July, 2018.

**41.** Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, 17-18 Kasım 2017.

**40.** 6<sup>th</sup> International Conference on Preservation and Consolidation of Historical Structures, Keynote Session, Trabzon, 2-4 November, 2017.

- 39.** İzmir and Earthquake Conference, Session: Repair and Retrofitting in Seismic Resistant Design, Izmir, 28-29 September, 2017.
- 38.** Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2017, Session: Practical Applications and Case Studies (15/9/2017), 13-15 September, 2017.
- 37.** Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2017, Session: Damage Control and Strengthening (14/9/2017), 13-15 September, 2017.
- 36.** Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2017, Session: Damage Control and Strengthening (13/9/2017), 13-15 September, 2017.
- 35.** 3rd International Conference on Protection of Historical Constructions, PROHITEC 2017, Lisbon, 12-15 July, 2017
- 34.** 6th National Conference on Earthquake Engineering and the 2nd National Conference on Earthquake Engineering and Seismology-6CNIS & 2CNISS, Bucharest, 14-17 June, 2017.
- 33.** CICE-2016, 8th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Sessions: Mini Symposium on seismic retrofit of structures with FRP composites, Hong Kong, December, 2016.
- 32.** ACE 2016, 12th International Congress on Advances in Civil Engineering, Istanbul, September, 2016.
- 31.** International Workshop on Seismic Retrofitting with FRP, Lyon, September, 2016.
- 30.** SEMC 2016, The 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation, Session: Seismic Response, Seismic Analysis, Earthquake Resistant Design, Cape Town, 5-7 September, 2016.
- 29.** The Fifth Symposium on Strengthening of Historical Monuments, Erzurum, 2015. (National).
- 28.** ACE2015, Advances in Civil and Infrastructure Engineering, Vietri Sul Mare, 2015.
- 27.** 8th National Conference on Earthquake Engineering, Istanbul, 2015.
- 26.** New Generation Seismic Design Codes and New Technologies in Earthquake Engineering, Ankara, 2015.
- 25.** Fifteenth European Conference on Earthquake Engineering, Istanbul, 2014.
- 24.** CICE-2014, 7th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Vancouver, August, 2014.
- 23.** The Fourth Symposium on Strengthening of Historical Monuments, Istanbul, 2013. (National).
- 22.** 2013 International Van Earthquake Engineering Symposium, Van, Turkey, October, 2013.
- 21.** Reinforced Concrete Structures Seminar for Prof. Zekai Celep, Istanbul, Turkey, 2013.

- 20.** CICE-2012, 6th International conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering, Session: Seismic Strengthening, Rome, June, 2012.
- 19.** Seventh National Conference on Earthquake Engineering, Istanbul, Turkey, May-June, 2011.
- 18.** Üçüncü Ulusal Yapı Mühendisliği Laboratuvarları Toplantısı, İzmit, Türkiye, 2011
- 17.** Turkish-Saudi Workshop on Structural and Earthquake Engineering, Istanbul, Turkey, June, 2010.
- 16.** Asia Pacific Conference on FRP in Structures (APFIS 2009), Session: Pultruded FRP Structures, Seoul, Korea.
- 15.** 11<sup>th</sup> Arab Structural Engineering Conference, Session: Computational modeling of Structures-I, Dhahran, Saudi Arabia, 2009.
- 14.** Sakarya International Symposium of Earthquake Engineering, Sakarya, Turkey, October, 2009.
- 13.** Ninth International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), Session: FRP retrofitting or FRP systems for blast loads / Seismic retrofitting or seismic-resistant design with FRP systems, Sydney, Australia, July, 2009.
- 12.** Earthquake and Tsunami, Session: Seismic Risk Mitigation, Istanbul, June, 2009.
- 11.** Reinforced Concrete Structures Seminar for Prof. Berdan, Prof. Aka, Prof. Bilge and Prof. Demir, Istanbul, Turkey, 2008.
- 10.** Sixth National Conference on Earthquake Engineering, İstanbul, Turkey, 2007.
- 9.** Eighth International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-8), Session: Durability, Patras, Greece, July, 2007.
- 8.** Asia Pacific Conference on FRP in Structures (APFIS 2007), Session: Confinement of Concrete, Hong Kong, China.
- 7.** Third International Conference on Composites in Civil Engineering (CICE2006), Session: Shear Retrofit, Miami, Florida, USA, December, 2006.
- 6.** Seventh International Conference on Advances in Civil Engineering (ACE2006), Session: Structural Engineering, Istanbul, Turkey, October, 2006.
- 5.** 8th National Conference on Earthquake Engineering, Session: Retrofit and Strengthening of Reinforced Concrete and Masonary Buildings, San Francisco, USA, April, 2006
- 4.** Nato Workshop, Seismic Assessment and Rehabilitation of Existing Buildings, İstanbul, Turkey, May-June, 2005.
- 3.** Sixth International Conference on Advances in Civil Engineering (ACE2004), Session: Structures: Behavior of R/C and Infilled Walls, Istanbul, Turkey, October, 2004.
- 2.** International Symposium on Confined Concrete (ISCC-2004), Session: Performance Based Design, Changsha, China, June, 2004.

1. Sixth International Symposium on FRP Reinforcement for Concrete Structures (FRPRCS-6), Session: Field Applications and Case Studies, Singapore, July, 2003.

### **Mesleki Kuruluslara Üyelikler:**

Deprem Mühendisliđi Türk Milli Komitesi

TMMOB, İnşaat Mühendisleri Odası

International Institute of FRP in Construction (Council member, and regional editor for the Newsletter of the Institute)

Fib, Uluslararası Yapısal Beton Federasyonu, Türkiye Ulusal Delegesi

ISHMII, International Society for Structural Health Monitoring of Intelligent Infrastructure (Associate Editor of Journal of ISHMII, 2013-2016)

### **Önemli Ulusal Sorumluluklar:**

1. Ministry of Public Works; Worked for drafting of the Turkish Seismic Design Code (2003-2007).

2. Consultancy to National Seismic Insurance System (TCIP-DASK) for Preparation of Seismic Damage Assessment Tools and conducting related Training Programs for Experts (2003-2005).

3. Ministry of Public Works; Consultancy for Development of Rapid Assessment Methodology for Ranking of Existing Seismically Vulnerable Buildings (2009-2010).

4. Ministry of Environment and Urbanization; Worked for drafting of the Code on Determination of Seismically Vulnerable Buildings in the context of Urban Transformation Law (2012).

5. AFAD; Member of the code revision committee for Turkish Seismic Design Code (2012-2018).

6. Member of the Editorial Board of Technical Journal (SCIE) of Chamber of Civil Engineers (2012).

7. Member of the Disaster Preparedness and Response Commission of Chamber of Civil Engineers (2012).

8. Ministry of Development; Member of the Special Expertise Committee for 10th Five Years Development Plan of Turkey on Efficiency in Disaster Management (2012).

9. Consultancy to National Seismic Insurance System (TCIP-DASK) for Upgrading of Seismic Damage Assessment Tools and Training System for Experts (2013).

10. Ministry of Environment and Urbanization; Member (deputy) of Technical Committee for Resolution of Disputes during Determination of High Risk Buildings in the context of Urban Transformation (2013-2014).

- 11.** Ministry of Environment and Urbanization; Member of Technical Committee for Resolution of Disputes during Determination of High Risk Buildings in the context of Urban Transformation (2015-2017).
- 12.** Scientific Committee for Drafting Guidelines for Seismic Retrofitting and Disaster Management of Historical Structures (2016-2017)
- 13.** DASK Zorunlu Afet Sigortası Kurumu Yönetim Kurulu Üyeliği (2017-)
- 14.** AFAD; Member of the code revision committee for Turkish Seismic Design Code (2012-2018).
- 15.** Türkiye Deprem Vakfı Yönetim Kurulu Üyeliği (2019-)
- 16.** Advisory Board Member of Ozyegin University, Istanbul (2019-)
- 17.** Advisory Board Member of Yeditepe University, Istanbul (2019-)
- 18.** Advisory Board Member of AFAD Disaster and Emergency (2020-)

## **ESERLER**

### **A. Uluslararası hakemli dergilerde yayımlanan makaleler:**

- A69.** Demir, U., G. Unal, C. Goksu, I. Saribas, A. Ilki, "Post-fire seismic behavior of RC columns built with sustainable concrete", *Journal of Earthquake Engineering*, accepted, May 2021.
- A68.** Mezrea, P.E., M. Ispir, I.A. Balci, I.E. Bal, A. Ilki, "Diagonal tensile tests on historical brick masonry wallets strengthened with fabric reinforced cementitious mortar", *Structures*, 33, 935-946, October, 2021.
- A67.** Inci, P., C. Goksu, E. Tore, A. Ilki, "Effects of seismic damage and retrofitting on a full-scale substandard RC building-Ambient vibration tests", *Journal of Earthquake Engineering*, accepted, February 2021.
- A66.** Saribas, I., C. Goksu, E. Binbir, A. Ilki, "Shear-flexure interaction in RAC columns under simulated seismic actions", *Engineering Structures*, 231, 2021.
- A65.** Dok, G., N. Caglar, A. Ilki, C. Yilmaz, "Residual load bearing capacity and failure mechanism of impacted high-strength reinforced concrete shear beams", *Engineering Failure Analysis*, 121, 2021.
- A64.** Rousakis, T., A. Ilki, A. Kwiecien, A. Viskovic, M. Gams, P. Triller, et al., "Deformable polyurethane joints and fibre grids for resilient seismic performance of reinforced concrete frames with orthoblock brick infills", *Polymers*, 12(12), December, 2020.
- A63.** Dok, G., N. Caglar, A. Ilki, C. Yilmaz, "Effect of impact loading on residual flexural capacity of high-strength reinforced concrete beams", *Structures*, 27, 2460-2480, October, 2020.
- A62.** Bas, S., C.Z. Dong, M.N. Apaydin, A. Ilki, N. Catbas, "Hanger replacement influence on seismic response of suspension bridges: Implementation to Bosphorus Bridge

subjected to multi-support excitation", *Earthquake Engineering and Structural Dynamics*, 49(14), 2020.

**A61.** Demir, U., C. Goksu, G. Unal, M. Green, A. Ilki, "Effect of fire damage on seismic behavior of cast-in-place reinforced concrete columns", *ASCE Journal of Structural Engineering*, 146(11), 04020232, 2020.

**A60.** Demir, U., C. Goksu, E. Binbir, A. Ilki, "Impact of time after fire on post-fire seismic behavior of reinforced concrete columns", *Structures*, 26, 537-548, 2020.

**A59.** Demir, U., M. Green, A. Ilki, "Post-fire seismic performance of precast RC columns", *PCI Journal*, accepted March, 2020.

**A58.** Gunes, B., A. Ilki, N.K. Ozturun, "Determination of monitoring parameters for fatigue behavior of steel-concrete composite bridge girders with welded full depth transverse stiffeners", *Sustainability*, 12(1), 283, 2020.

**A57.** Senturk, M., S. Pul, A. Ilki, I. Hajirasouliha, "Development of a monolithic-like precast beam-column moment connection: experimental and analytical investigation", *Engineering Structures*, 205, 110057, 2020.

**A56.** Saribas, I., C. Goksu, E. Binbir, A. Ilki, "Seismic performance of full-scale RC columns containing high proportion recycled aggregate", *Bulletin of Earthquake Engineering*, 17, 6009-6037, 2019.

**A55.** Goksu, C., I. Saribas, E. Binbir, Y. Akkaya, A. Ilki, "Structural performance of recycled aggregates concrete sourced from low strength concrete", *Structural Engineering and Mechanics*, 69(1), 77-93, 2019.

**A54.** Demir, U., M. Ispir, Y. Sahinkaya, G. Arslan, A. Ilki, "Axial behavior of noncircular high-performance fiber-reinforced cementitious composite members externally jacketed by CFRP sheets", *ASCE, Journal of Composites for Construction*, 23(4), 2019.

**A53.** Ates, A.O., S. Khoshkholghi, E. Tore, M. Marasli, A. Ilki, "Sprayed glass fiber reinforced mortar with or without basalt textile reinforcement for jacketing of low strength concrete prisms", *ASCE, Journal of Composites for Construction*, 23(2), Apr 2019.

**A52.** Cosgun, C., C. Demir, M. Comert, A. Ilki, "Seismic retrofit of joints of a full-scale 3D reinforced concrete frame with FRP composites", *ASCE, Journal of Composites for Construction*, 23(2), Apr 2019.

**A51.** Ilki, A., U. Demir, "Factors affecting seismic behaviour of reinforced concrete structures after fire exposure", *NED University Journal of Research*, Special Issue on First South Asia Conference on Earthquake Engineering (SACEE'19), 1, 31-41, 2019.

**A50.** Halici, O.F., K. Ugurlu, C. Demir, M. Comert, A. Ilki, "Evaluation of diaphragm conditions in AAC floor structures", *Bulletin of Earthquake Engineering*, 16, 6131-6162, 2018.

**A49.** Ispir, M., K.D. Dalgic, A. Ilki, "Hybrid confinement of concrete through use of low and high rupture strain FRPs", *Composites Part B*, 153, 243-255, 2018.

**A48.** Ghatte, H.F., M. Comert, C. Demir, M. Akbaba, A. Ilki, "Seismic retrofit of full-scale substandard extended rectangular RC columns through CFRP jacketing: Test results and design recommendations", *ASCE, Journal of Composites for Construction*, 23(1), Feb 2019.

- A47.** Gurbuz, T., A. Ilki, D.P. Thambiratnam, N. Perera, "Low elevation impact tests of axially loaded reinforced concrete columns", *ACI Structural Journal*, 116(1), 117-128, 2019.
- A46.** Dalgic, D.K., M.A.N. Hendriks, A. Ilki, W. Broere, "A two-stage analysis approach for the assessment of the settlement response of the pre-damaged historic Hoca Pasha Mosque", *International Journal of Architectural Heritage*, 13(5), 704-724, 2019.
- A45.** Demir, U., Y. Sahinkaya, M. Ispir, A Ilki, "Assessment of axial behavior of circular HPFRCC members externally confined with FRP sheets", *Polymers*, 10(2), Article 138, 2018.
- A44.** Dalgic, D.K., M.A.N. Hendriks, A Ilki, "Building response to tunnelling- and excavation-induced ground movements: using transfer functions to review the limiting tensile strain method", *Structure and Infrastructure Engineering*, 14(6), 766-779, 2018.
- A43.** Bas, S., N.M. Apaydin, A. Ilki, N. Catbas, "Structural health monitoring system (SHMs) of the long-span bridges in Turkey", *Structure and Infrastructure Engineering*, 14(4), 425-444, 2018.
- A42.** Halici, O.F., K.D. Dalgic, O. Ozeren, K. Ugurlu, C. Demir, M. Comert, A. Ilki, "From experiments to seismic design rules for structures built with reinforced autoclaved aerated concrete", *ce/papers*, 2, doi:10.1002/cepa.831, 275-282, 2018.
- A41.** Comert, M., C. Demir, A.O. Ates, K. Orakcal, and A. Ilki, "Seismic performance of three-storey full-scale sub-standard reinforced concrete buildings" *Bulletin of Earthquake Engineering*, 15(8), 3293-3320, 2017.
- A40.** Goksu, C., P. Inci, U. Demir, U. Yazgan, and A. Ilki, "Field testing of substandard RC buildings through forced vibration test" *Bulletin of Earthquake Engineering*, 15(8), 3245-3263, 2017.
- A39.** Mezrea, P.E., I.A. Yilmaz, E. Binbir, M. Ispir, I.E. Bal, and A. Ilki, "External jacketing of unreinforced historical masonry piers with open-grid basalt reinforced mortar" *ASCE, Journal of Composites for Construction*, 21(3), Article Number: 04016110, 2017.
- A38.** Ghatte, H.F., M. Comert, C. Demir, and A. Ilki, "Evaluation of FRP confinement models for substandard rectangular RC columns based on full-scale reversed cyclic lateral loading tests in strong and weak directions" *Polymers*, 8(9), doi:10.3390/polym8090323, 2016.
- A37.** Cavunt, Y.S., D. Cavunt, and A. Ilki, "Indoor and outdoor pullout tests for retrofit anchors in low strength concrete" *Computers and Concrete*, 18(5), 951-968, 2016.
- A36.** Kaya, E., C. Kutan, S. Sheikh, and A. Ilki, "Flexural retrofit of support regions of reinforced concrete beams with anchored FRP ropes using NSM and ETS methods under reversed cyclic loading," *ASCE, Journal of Composites for Construction*, 21(1), Article Number: 04016072, 2017.
- A35.** Goksu, C., and A. Ilki, "Seismic behavior of reinforced concrete columns with corroded deformed reinforcing bars," *ACI Structural Journal*, 113(5), 1053-1064, 2016.
- A34.** Akbas, T.T., O.C. Celik, C. Yalcin, and A. Ilki, "Monotonic and cyclic bond behavior of deformed CFRP bars in high strength concrete," *Polymers*, 8(6), June 2016.



- A33.** Seyhan, E.C., C. Goksu, A. Uzunhasanoglu, and A. Ilki, "Seismic behavior of substandard RC columns retrofitted with embedded AFRP reinforcement," *Polymers*, 7(12), 2535-2557, 2015.
- A32.** Dalgic, K., M. Ispir, A. Ilki "Cyclic and monotonic compression behavior of CFRP jacketed damaged non-circular concrete prisms," *ASCE, Journal of Composites for Construction*, 20(1), Article Number: 04015040, 2016.
- A31.** Goksu, C., P. Inci, and A. Ilki, "The effect of corrosion on bond mechanism between extremely low strength concrete and plain reinforcing bars," *ASCE J. Perf. Const. Facilities*, 30(3), Article number 04015055, 2016.
- A30.** Demir, C., K. Darilmaz, and A. Ilki, Cyclic stress-strain relationships of FRP confined concrete members, *The Arabian Journal for Science and Engineering*, 40(2), 363-379, 2015.
- A29.** Demir, C., A. Kucukkapili, D. Doyrangul, and A. Ilki, The effects of loading rate and duration on the axial behavior of low-strength and medium-strength noncircular concrete members confined by fiber-reinforced polymer sheets, *Polymers*, 6(6), 1685-1704, 2014.
- A28.** Yuksel, E., F. Karadogan, E. Bal, A. Ilki, A. Bal, P. Inci, Seismic behavior of two exterior beam-column connections made of normal-strength concrete developed for precast construction, *Engineering Structures*, 99, 157-172, 2015.
- A27.** Demir, C., and A. Ilki, Characterization of the materials used in the multi-leaf masonry walls of monumental structures in Istanbul, Turkey, *Construction and Building Materials*, 64, 398-413, 2014.
- A26.** Ilki, A., M. Comert, C. Demir, K. Orakcal, D. Ulugtekin, M. Tapan and N. Kumbasar, Performance based rapid seismic assessment method (PERA) for reinforced concrete frame buildings, *Advances in Structural Engineering*, 17(3), 439-459, 2014.
- A25.** Goksu, C., H. Yilmaz, S.R. Chowdhury, K. Orakcal, and A. Ilki, The effect of lap splice length on the cyclic lateral load behavior of RC members with low-strength concrete and plain bars, *Advances in Structural Engineering*, 17(5), 639-658, 2014.
- A24.** Garcia, R., I. Hajirasouliha, M. Guadagnini, Y. Helal, Y. Jemaa, K. Pilakoutas, P. Mongabure, C. Chrysostomou, N. Kyriakides, A. Ilki, N. Taranu, M.A. Ciupala, L Torres and M. Saiidi, "Full-scale shaking table tests on a sub-standard RC building repaired and strengthened with post-tensioned metal straps, *Journal of Earthquake Engineering*, 18(2), 187-213, 2014.
- A23.** Bedirhanoglu, I., A. Ilki, and N. Kumbasar, "Precast fiber reinforced cementitious composites for seismic retrofit of deficient rc joints - a pilot study," *Engineering Structures*, **52**, 192-206, 2013.
- A22.** Tapan, M., M. Comert, C. Demir, Y. Sayan, K. Orakcal, and A. Ilki, "Failures of Structures during the October 23, 2011 Tabanlı (Van) and November 9, 2011 Edremit (Van) Earthquakes in Turkey," *Engineering Failure Analysis*, **34**, 606-628, 2013.
- A21.** Inci, P., C. Goksu, A. Ilki, and N. Kumbasar, "Effects of Reinforcement Corrosion on the Performance of RC Frame Buildings Subjected to Seismic Actions," *ASCE J. Perf. Const. Facilities*, **27(6)**, 683-696, 2013.
- A20.** Koroglu, M.A., M. Ceylan, M.H. Arslan, and A. Ilki, "Estimation of Flexural Capacity of Quadrilateral FRP-Confined RC Columns using Combined Artificial Neural Network," *Engineering Structures*, **42**, 23-32, 2012.

- A19.** Koksall, F., A. Ilki, and M.A. Tasdemir, "Optimum Mix Design of Steel Fiber Reinforced Concrete Plates," *Arabian Journal of Science and Engineering*, (accepted in 2012).
- A18.** Ispir, M., and A. Ilki, "Behavior of Historical Unreinforced Brick Masonry Walls under Monotonic and Cyclic Compression," *Arabian Journal of Science and Engineering*, **38(8)**, 1993-2007, 2013.
- A17.** Goksu, C., A. Polat, A. Ilki "An Attempt for Seismic Retrofit of Existing Sub-Standard RC Members under Reversed Cyclic Flexural Effects," *ASCE, Journal of Composites for Construction*, **16(3)**, 286-299, 2012.
- A16.** Ilki, A. and Z. Celep, "Earthquakes, Existing Buildings, and Seismic Design Codes in Turkey," *Arabian Journal of Science and Engineering*, **37(2)**, 365-380, 2012.
- A15.** Ozsayin, B., E. Yilmaz, M. Ispir, H. Ozkaynak, E. Yuksel, and A. Ilki, "Characteristics of CFRP Retrofitted Hollow Brick Infill Walls of Reinforced Concrete Frames," *Construction and Building Materials*, **25(10)**, 4017-4024, 2011.
- A14.** Celep, Z., A. Erken, B. Taskin and A. Ilki, "Failures of masonry and concrete buildings during the March 8, 2010 Kovancilar and Palu (Elazig) Earthquakes in Turkey," *Engineering Failure Analysis*, **18**, 868-889. 2011.
- A13.** Ilki, A., I. Bedirhanoglu and N. Kumbasar, "Behavior of FRP Retrofitted Joints Built with Plain Bars and Low-Strength Concrete," *ASCE J. Comp. Const.*, **15(3)**, 312-326, 2011.
- A12.** Gurbuz, T., and A. Ilki, "Pullout Performance of Fully and Partially Bonded Retrofit Anchors in Low Strength Concrete," *ACI Structural J.*, **108(1)**, 61-70, 2011.
- A11.** Comert, M., and A. Ilki, "The Explosion Performance of a Ball Powder Production Facility," *ASCE J. Perf. Const. Facilities*, **24(4)**, 326-336, 2010.
- A10.** Ispir, M., C. Demir, A. Ilki and N. Kumbasar, "Material Characterization of the Historical Unreinforced Masonry Akaretler Row Houses in Istanbul," *ASCE J. Mat. Civ. Eng.*, **22(7)**, 702-713, 2010.
- A9.** Bedirhanoglu, I., A. Ilki, S. Pujol, N. Kumbasar, "Behavior of Deficient Joints with Plain Bars and Low-strength Concrete," *ACI Structural J.*, **107(3)**, 300-310, 2010.
- A8.** Demir, C., K. Kolcu, A. Ilki, "Effects of Loading Rate and Duration on Axial Behavior of Concrete Confined by Fiber Reinforced Polymer Sheets," *ASCE J. Comp. Const.*, **14(2)**, 146-151, 2010.
- A7.** Ilki, A., C. Demir, I. Bedirhanoglu, N. Kumbasar, "Seismic Retrofit of Brittle and Low Strength RC Columns using Fiber Reinforced Polymer and Cementitious Composites," *Advances in Structural Engineering*, **12(3)**, 325-347, 2009.
- A6.** Eraybar, K., K. Okazaki, A. Ilki, "An Exploratory Study on the Perception of Seismic Risk and Mitigation in Two Districts of Istanbul", *Disasters*, **34(1)**, 71-92, (2010).
- A5.** Ilki, A., O. Peker, E. Karamuk, C. Demir and N. Kumbasar, "FRP Retrofit of Low and Medium Strength Circular and Rectangular Reinforced Concrete Columns," *ASCE J. Mat. Civ. Eng.*, **20(2)**, 169-188, (2008).

**A4.** İlki, A., N. Kumbasar ve V. Koç, "Low Strength Concrete Members Externally Confined with FRP Sheets," *Int. J. Str. Eng. Mech.*, **18(2)**, 167-194 (2004).

**A3.** İlki, A., N. Kumbasar, P. Özdemir ve T. Fukuta, "A Trilinear Stress-strain Model for Confined Concrete," *Int. J. Str. Eng. Mech.*, **18(5)**, 541-563, (2004).

**A2.** İlki, A. ve N. Kumbasar, "Compressive Behaviour of Carbon Fiber Composite Jacketed Concrete with Circular and Non-circular Cross-sections," *J. Earthquake Engineering*, **7(3)**, 381-406 (2003).

**A1.** İlki, A. ve N. Kumbasar, "Behavior of Damaged and Undamaged Concrete Strengthened by Carbon Fiber Composite Sheets," *Int. J. Str. Eng. Mech.*, **13(1)** 75-90 (2002).

## **B. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler:**

**B190.** Kian, N., U. Demir, A.O. Ates, C. Demir, M. Marasli, A. Ilki, "Seismic strengthening of substandard RC columns under high axial stress/high shear demand using sprayed GFRM," CICE 2020/2021, 10th International Conference on FRP Composites in Civil Engineering, Istanbul, 8-10 December, 2021.

**B189.** Demir, M.N., U. Demir, C. Demir, A. Ilki, "Seismic performance of CFRP jacketed sub-standard RC columns under high axial stress and shear demand," CICE 2020/2021, 10th International Conference on FRP Composites in Civil Engineering, Istanbul, 8-10 December, 2021.

**B188.** Akbas, T.T., O.C. Celik, C. Yalcin, A. Ilki, "Experimental study on comparison of cyclic bond behavior of ribbed and sand-coated CFRP bars in high strength concrete," CICE 2020/2021, 10th International Conference on FRP Composites in Civil Engineering, Istanbul, 8-10 December, 2021.

**B187.** Rousakis, T., A. Kwiecien, A. Viskovic, A. Ilki, P. Tiller, B. Ghiassi, A. Benedetti, M. Gams, Z. Rakicevic, O.F. Halici, B. Zajac, L. Hojdy, P. Krajewski, F. Rizzo, C. Colla, E. Gabrielli, A. Sapalidis, E. Papadoulis, V. Vagian, A. Bogdanovic, "Quick reparation of infills in RC frames after seismic damages-Experimental tests on shaking table," CICE 2020/2021, 10th International Conference on FRP Composites in Civil Engineering, Istanbul, 8-10 December, 2021.

**B186.** Luleci, M.C., B. Sari, U. Demir, M. Marasli, A. Ilki, "Seismic behavior of sub-standard extended rectangular RC columns jacketed with sprayed GFRM," COMPDYN 2021, 8<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Athens, 27-30 June, 2021.

**B185.** Narlıtepe, F., N. Kian, U. Demir, C. Demir, A. Ilki, "Seismic strengthening of sub-standard RC columns through a novel hybrid thin jacketing," fib Symposium 2021, Concrete Structures: New trends for eco-efficiency and performance, Lisbon, 14-16 June, 2021.

**B184.** Durgut, E., M. Ispir, C. Demir, O.T. Turan, A. Ilki, "Bursa Hocaalızade Cami minaresinin deprem performansının doğrusal ve doğrusal olmayan analiz yaklaşımları ile incelenmesi-Investigation of seismic performance of minaret of Bursa Hocaalızade Mosque through linear and nonlinear analysis approaches," 9th Turkish Conference on Earthquake Engineering, Istanbul, 2-3 June, 2021.

**B183.** Yıldırım, S., A. Mahdavi, A. Ilki, B. Erkus, Y.I. Tonguc, "550 yıllık bir tarihi caminin su taşkını ve deprem risklerine karşı korunması-Seismic and flood protection of a 550-

year-old mosque" 9th Turkish Conference on Earthquake Engineering, Istanbul, 2-3 June, 2021.

**B182.** Demir, U., A. Baltaci, A. Ilki, "Numerical modelling of post-fire seismic behavior of RC columns using OpenSees framework," 9th Turkish Conference on Earthquake Engineering, Istanbul, 2-3 June, 2021.

**B181.** Kwiecien, A., Z. Rakicevic, A. Bogdanovic, F. Manojlovski, A. Poposka, A. Shoklarovski, T. Rousakis, A. Ilki, M. Gams, A. Viskovic, "PUFJ and FRPU earthquake protection of infills tested in resonance," 1CroCEE, 1st Croatia Conference Earthquake Engineering, Zagreb, 22-24 March, 2021.

**B180.** Ilki, A., O.F. Halici, E. Kupcu, M. Comert, C. Demir, "Modifications on seismic damage assessment system of TCIP based on reparability," 17WCEE, The 17th World Conference on Earthquake Engineering, Sendai, 2020-2021.

**B179.** Dalgic, K.D., D.B. Gulen, S. Acikgoz, H. Burd, M.A.N. Hendriks, G. Giardina, A. Ilki, "Large scale experimental settlement tests to evaluate structural models for tunnelling-induced damage analysis," 16<sup>th</sup> International Conference of the International Association for Computer Methods and Advances in Geomechanics, IACMAG 2021: Challenges and Innovations in Geomechanics, Torino, 5-8 May, 2021.

**B178.** Genes, M.C., C. Demir, A. Ilki, "Seismic design of masonry buildings in TBEC-2018," Kerpic'20-Healthy Buildings: The Role of Earthen Materials on Providing Healthy and Sustainable Indoor Environment, 8th International Conference, Istanbul, 26-27 November, 2021.

**B177.** Rousakis, T., E. Papadouli, A. Sapolidis, V. Vanian, A. Ilki, O.F. Halici, A. Kwiecien, B. Zajac, L. Hojdys, P. Krajewski, M. Tekieli, T. Akyildiz, A. Viskovic, F. Rizzo, M. Gams, P. Tiller, B. Ghiassi, A. Benedetti, C. Colla, Z. Rakicevic, A. Bogdanovic, F. Manojlovski, A. Soklarovski, "Flexible joints between RC frames and masonry infill for improved seismic performance-Shake table tests," 17th IB2MaC, 17th International Brick and Block Masonry Conference, Krakow, 5-8 July, 2020.

**B176.** Bedirhanoglu, I., A. Ilki, T. Triantafillou, "Effecy of pre-damage on the seismic behaviour of FRP-retrofitted sub-standard short columns," APFIS 2019, the Seventh Asia-Pacific Conference on FRP in Structures, Gold Coast, 10-13 December, 2019.

**B175.** Ilki, A., I. Saribas, C. Goksu, "Seismic behavior of reinforced concrete members built with recycled aggregate," 3rd International Conference on Natural Hazards and Disaster Management, Van, 25-27 October, 2019. (keynote lecture).

**B174.** Ilki, A., U. Demir, "Prediction of seismic response of fire-damaged RC columns," 5<sup>th</sup> International Conference on Earthquake Engineering and Seismology-Haluk Sucuoglu Symposium, 8-11 October, 2019. (invited lecture).

**B173.** Ilki, A., U. Yazgan, C. Demir, A.O. Ates, E. Kupcu, G. Unal, M.A. Altinok, B. Karakaya, F. Narlitepe, "Development of a framework for rapid earthquake risk assessment for substandard buildings in Turkey," 2<sup>nd</sup> International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, Istanbul, 20 September, 2019. (invited lecture).

**B172.** Yazgan, U., A. Ilki, C. Demir, A.O. Ates, E. Kupcu, G. Unal, M.A. Altinok, B. Karakaya, F. Narlitepe, "Challenges in developeing seismic vulnerability models for substandard building stocks in Turkey," 2<sup>nd</sup> International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, Istanbul, 20 September, 2019. (invited lecture).

**B171.** Aydin, S., O.A. Sisman, A. Ilki, H. Lus, A. Ceccotti, "Comparison of a mid-rise reinforced concrete and a cross-laminated timber building designed for minimum seismic

damage," 2019 SECED Conference, Earthquake Risk and Engineering towards a resilient world, London, 9-10 September 2019.

**B170.** Cakman, M., U. Harmankaya, B. Barutcu, P.I. Kocak, A. Ilki, A. Kaslilar, "Spectral analysis of vibrations of ITU TRIGA MARK-II nuclear research reactor building, Istanbul, Turkey," Near Surface Geoscience Conference and Exhibition 2019, The Hague, 8-12 September, 2019.

**B169.** Sisman, O.A., A. Isikara, A. Ilki, "Strengthening glued laminated non-circular timber columns with CFRP jacketing," 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2019), Potsdam, 27-29 August, 2019.

**B168.** Aydogdu, H.H., A. Ilki, "An overview of research on SMAs with a focus on seismic risk mitigation," 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2019), Potsdam, 27-29 August, 2019.

**B167.** Demir, U., G. Unal, A.F. Sert, R.O. Calis, A. Ilki, "Influence of FRP repair on the axial behavior of fire damaged concrete," 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2019), Potsdam, 27-29 August, 2019.

**B166.** Demir, U., G. Unal, E. Binbir, A. Ilki, "Cyclic behavior of full-scale RC columns externally jacketed with FRP sheets after fire," COMPDYN 2019, 7<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, 24-26 June, 2019.

**B165.** Demir, U., G. Unal, U. Celik, A. Ilki, "Axial behavior of square RC columns repaired with FRP sheets after fire," fib Symposium 2019-Innovations in Materials, Design and Structures, Krakow, 27-29 May, 2019.

**B164.** Demir, U., C. Goksu, G. Unal, A. Ilki, "Impact of fire exposure on seismic behavior of reinforced concrete columns," 7th Structural Engineers World Congress 2019, Istanbul, 24-26 April, 2019.

**B163.** Ilki, A., U. Demir, "Factors affecting the seismic behavior of reinforced concrete structures after fire exposure," The First South Asia Conference on Earthquake Engineering (SACEE 2019), Karachi, 21-22 Feb, 2019. (keynote lecture).

**B162.** Bedirhanoglu, I., A. Ilki, "Fiber reinforced cementitious composites for retrofit of reinforced concrete members-A review," International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Seismic Practices, Istanbul, 16 November, 2018. (invited lecture).

**B161.** Bas, S., O. Karakus, O. Ceylan, A. Ilki, "Structural analysis and monitoring suggestions for an 11<sup>th</sup> century shipwreck," SAHC 2018, 11th International Conference on Structural Analysis of Historical Constructions, Cusco, 11-13 September, 2018.

**B160.** Halici, O.F., K.D. Dalgic, O. Ozeren, K. Ugurlu, C. Demir, M. Comert, A. Ilki, "From experiments to seismic design rules for structures built with reinforced autoclaved aerated concrete panels," Sixth International Conference on Autoclaved Aerated Concrete, Potsdam, 4-6 September, 2018.

**B159.** Sisman, O.A., A. Isikara, E. Binbir, A. Ilki, "Compressive behavior of medium strength circular glue laminated timber columns jacketed with FRP sheets," CICE 2018, 9<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering, Paris, 17-19 July, 2018.

**B158.** Bas, S., N.M. Apaydın, A. Ilki, N. Catbas, "Hanger replacement effect: experimental and numerical investigation on the Bosphorus bridge," IABMAS 2018, 9<sup>th</sup> International Conference on Bridge Maintenance, Safety and Management, Melbourne, 9-13 July, 2018.

**B157.** Saribas, I., C. Goksu, A. Ilki, "Seismic performance of reinforced concrete columns built with recycled concrete aggregate," ERMCO Congress 2018, European Ready Mixed Concrete Organization, Oslo, 7-8 June, 2018.

**B156.** Ilki, A., E. Tore, C. Demir, M. Comert, "Seismic performance of retrofitted sub-standard RC buildings," 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, 14-17 June, 2018. **(invited theme lecture).**

**B155.** Bas, S., N.M. Apaydın, A. Ilki, N. Catbas, "Vertical hanger replacement influence on structural response of the Bosphorus bridge to multi-point earthquake motion," 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, 14-17 June, 2018.

**B154.** Ahunbay, Z., G. Altay, G. Arun, O. Aldemir, Z. Celep, M.A. Erberik, A. Ilki, F. Kuran, Z.G. Unal, F. Akoz, N. Olgun, M. Simsek, Y. Kaya, Y. Ucar, "The Turkish Guideline for Earthquake Risk Management of Historical Structures," 6<sup>th</sup> International Conference on Preservation and Consolidation of Historical Structures, Trabzon, 2-4 November, 2017.

**B153.** Bal, I.E., E. Smyrou, M. Alaboz, M.N. Yavuzer, C. Demir, M. Comert, A. Ilki, "Open-air cyclic testing of a large-scale stone masonry specimen," 7<sup>th</sup> International Conference on Advances in Experimental Structural Engineering, Pavia, 6-8 September, 2017.

**B152.** Demir, C., M. Comert, P. Inci, S. Dusak, A. Ilki, "Seismic assessment and rehabilitation of Hirka-i Serif Mosque," 3<sup>rd</sup> International Conference on Protection of Historical Constructions, PROHITEC 2017, Lisbon, 12-15 July, 2017.

**B151.** Ahunbay, Z., G. Altay, G. Arun, O. Aldemir, Z. Celep, M.A. Erberik, A. Ilki, F. Kuran, Z.G. Unal, F. Akoz, N. Olgun, M. Simsek, Y. Kaya, Y. Ucar, "Preparation of a guideline for earthquake risk management of historical structures in Turkey," 3<sup>rd</sup> International Conference on Protection of Historical Constructions, PROHITEC 2017, Lisbon, 12-15 July, 2017.

**B150.** Inci, P., C. Goksu, U. Demir, A. Ilki, "Ambient vibration testing of a 3-storey substandard RC building at different levels of structural seismic damage," International Conference on Earthquake Engineering and Structural Dynamics, Reykjavik, 12-14 July, 2017.

**B149.** Saribas, I., C. Goksu, A. Ilki, "Seismic performance of full-scale recycled aggregate concrete columns," COMPDYN 2017, Rhodes Island, 15-17 June 2017.

**B148.** Ilki, A., E. Tore, C. Demir, M. Comert, "Code based performance prediction for a full-scale FRP retrofitted building test," 6<sup>th</sup> National Conference on Earthquake Engineering and the 2<sup>nd</sup> National Conference on Earthquake Engineering and Seismology-6CNIS & 2CNIS, Bucharest, 14-17 June, 2017. **(invited lecture).**

**B147.** Tore, E., M. Comert, C. Demir, A. Ilki, "Collapse testing of full-scale RC buildings with or without seismic retrofit of columns with FRP jackets," TU1207 End of Action Conference, Budapest, 3-5 April, 2017.

**B146.** Dalgic, K.D., M.A.N. Hendriks, W. Broere, A. Ilki, "A case study: settlement response of the historic Hoca Pasha Mosques to a deep circular shaft excavation,"

ECCOMAS Thematic Conference 2017: Computational Methods in Tunnelling – EURO:TUN 2017, Innsbruck, 18-20 April, 2017.

**B145.** Ugurlu, K., C. Demir, M. Comert, K.D. Dalgic, A. Ilki, "Full-scale seismic testing of a building constructed with AAC panels," 16<sup>th</sup> WCEE 2017, 16<sup>th</sup> World Conference on Earthquake Engineering, Santiago, 9-13 January, 2017.

**B144.** Akalp, S., K. Orakcal, H. Lus, A. Ilki, U. Ersoy, "A simplified preliminary design method for low-to-medium rise reinforced concrete buildings," 16<sup>th</sup> WCEE 2017, 16<sup>th</sup> World Conference on Earthquake Engineering, Santiago, 9-13 January, 2017.

**B143.** Ates, A.O., E. Tore, S. Khoshkholghi, A. Ilki, "Sprayed textile reinforced GFRC for retrofitting of sub-standard non-circular concrete columns," 16<sup>th</sup> WCEE 2017, 16<sup>th</sup> World Conference on Earthquake Engineering, Santiago, 9-13 January, 2017.

**B142.** Seyhan, E.C., I. Saribas, C. Goksu, A. Ilki, "Seismic response of AFRP retrofitted pre-damaged and undamaged substandard RC columns in weak-axis direction, CICE2016, Hong Kong, December, 2016.

**B141.** Akbaba, M., C. Demir, M. Comert, E. Binbir, A. Ilki, "FRP jacketing of sub-standard RC columns with extended cross-sections for improved seismic performance," Cinpar 2016, XII International Conference on Structural Repair and Rehabilitation, Porto, 26-29 October, 2016.

**B140.** Ilki, A., C. Demir, M. Comert, "Seismic Retrofit using FRP Reinforcement - Research and Application," International Workshop on RC FRP Seismic Retrofitting, Lyon, 19-20 September, 2016. (keynote lecture).

**B139.** Gurbuz, T., A. Ilki, D.P. Thambiratnam, N. Perera, "Effects of loading rate on impact response of axially loaded reinforced concrete members and performance enhancement by AFRP," SEMC 2016, The 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation, Cape Town, 5-7 September, 2016.

**B138.** Demir, C., M. Comert, A. Ilki, P.O. Celik, "Seismic assessment and rehabilitation of XVth century Kucuk Mustafa Pasa Bath," SEMC 2016, The 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation, Cape Town, 5-7 September, 2016.

**B137.** Kaya, E., Y.S. Cavunt, D. Cavunt, M. Ispir, A. Ilki, "Flexural Retrofit of Support Regions of Reinforced Concrete Beams with Anchored FRP Ropes under Reversed Cyclic Loading," Second International Conference on Performance-Based and Life-Cycle Structural Engineering (PLSE 2015), Brisbane, 9-11 December, 2015.

**B136.** Gurbuz, T., A. Ilki, D.P. Thambiratnam, N. Perera, "AFRP Retrofit of Reinforced Concrete Columns Against Impact Loading," Second International Conference on Performance-Based and Life-Cycle Structural Engineering (PLSE 2015), Brisbane, 9-11 December, 2015.

**B135.** Bal, I.E., E. Smyrou, B. Gunes, A. Ilki, "Mitigating Seismic Risks in Historical Masonry: An Example Project," 2nd ATC-SEI Conference on Improving Seismic Performance of Existing Buildings and Other Structures, San Francisco, September 27-October 1, 2015.

**B134.** Ghatte, H.F., M. Comert, C. Demir, A. Ilki, "Performances of FRP Confinement Models for Predicting the Behavior of Full-Scale FRP Retrofitted Columns under Simulated Seismic Actions," FRPRCS-12 and APFIS 2015 Joint Conference, Nanjing, December, 2015.

**B133.** Akbas, T.T., O.C. Celik, C. Yalcin, A. Ilki, "Monotonic and Cyclic Bond Behavior of Deformed CFRP Bars in High Strength Concrete," SMAR 2015, Third Conference on Smart Monitoring, Assessment and Rehabilitation, Antalya, September, 2015.

- B132.** Ghatte, H.F., M. Comert, C. Demir, A. Ilki, "Seismic Performance of Full-scale FRP Retrofitted Substandard Rectangular RC Columns Loaded in the Weak Direction," ACE 2015, Advances in Civil and Infrastructure Engineering, Vietri Sul Mare, June, 2015.
- B131.** Tore, E., M. Comert, C. Demir, M. Marasli, A. Ilki, "Seismic Retrofit of Columns using Basalt Mesh Reinforced Sprayed GFRC Jacket," GRC Association Congress, Dubai, April, 2015.
- B130.** Ispir, M., D.K. Dalgic, S. Hajihosseini, M. Marasli, A. Ilki, "Long-term Deformation Monitoring of Façade Panels under Ambient Conditions," GRC Association Congress, Dubai, April, 2015.
- B129.** Ispir, M., C. Demir, A. Ilki, N. Kumbasar, "An Outline of the Seismic Damages of Several Monumental Structures in Istanbul after Historical Earthquakes," Workshop on Seismic Risk of Historical Structures, November, 2014. **(invited lecture).**
- B128.** Ilki, A., C. Demir, M. Ispir, P.E. Mezrea, I.A. Yilmaz, M. Comert, E. Bal, O. Ozel, "Recent ITU Research on Behavior and Retrofit of Historical Masonry and Implementation on monumental structures," Protection of Cultural Heritage Symposium, Istanbul, November, 2014. **(invited lecture).**
- B127.** Ilki, A., "Current State of Seismic Assessment and Retrofitting in Turkey," International Seminar on Seismic Design, Retrofitting and Good Practices of Building Construction for Safer Cities, Dhaka, September, 2014. **(invited lecture).**
- B126.** Comert, M., C. Demir, H.F. Ghatte, and A. Ilki, "Seismic Performance of Full-Scale FRP Confined Sub-Standard Columns Subjected to High Axial Load," CICE2014, Vancouver, August, 2014.
- B125.** Comert, M., S. Hajihosseini, A. Nasrinpour, A.O. Ates, C. Demir, M. Marasli, and A. Ilki, "Seismic Retrofit of Sub-standard RC Columns through Basalt Mesh Reinforced Sprayed GFRC Jacketing," FRC 2014 Joint ACI-fib International Workshop, Montreal, July, 2014.
- B124.** Yilmaz, I.A., P.E. Mezrea, M. Ispir, I.E. Bal, and A. Ilki, "Confinement of historical brick masonry piers with basalt TRM," PROHITEC-2014, the Second International Conference on Protection of Historical Constructions, Antalya, May, 2014.
- B123.** Ilki, A., C. Demir and M. Comert, "Retrofit of RC Joints with FRP Composites," APFIS 2013, the Fourth Asia-Pacific Conference on FRP Structures, Melbourne, December, 2013. **(keynote lecture).**
- B122.** Yilmaz, I.A., P.E. Mezrea, M. Ispir, I.E. Bal and A. Ilki, "External Confinement of Brick Masonry Columns with Open-Grid Basalt Reinforced Mortar," APFIS 2013, the Fourth Asia-Pacific Conference on FRP Structures, Melbourne, December, 2013.
- B121.** Ilki, A., C. Demir, M. Comert, and K. Kusunoki, "Evaluation of Seismic Damage Assessment Methodologies Based on Field Observations, Test Results and Analytical Studies," 2013 International Van Earthquake Symposium, 2013. **(keynote lecture).**
- B120.** Hibino, Y., H. Watanabe, K. Kusunoki, A. Tasai, N. Muneyoshi, M. Tapan and A. Ilki, "Seismic Performance of Damaged RC Buildings in 2011 Van Earthquakes," 2013 International Van Earthquake Symposium, 2013.
- B119.** Kusunoki, K., Y. Hibino, H. Watanabe, A. Tasai, M. Numada, M. Tapan and A. Ilki, "Outline of Field Investigation for 2011 Van Earthquakes," 2013 International Van Earthquake Symposium, 2013.
- B118.** Saribas, I., Ispir, M., M.E. Sahin, and A. Ilki, "Influence of Different Transverse Reinforcement Details on the Axial Behavior RC Columns," 2013 International Van Earthquake Symposium, 2013.
- B117.** Ilki, A., C. Demir, and K. Ugurlu, "An Overview of Seismic Performance of Buildings Constructed with Reinforced AAC Panels," Proc. Sustainable Building Concepts in Earthquake Regions & Energy Efficient Buildings, Istanbul, 2013. **(invited paper).**



**B116.** Garcia, R., I. Hajirasouliha, K. Pilakoutas, Y. Helal, Y. Jemaa, M. Guadagnini, M. Petkovski, P. Mongabure, M.A. Ciupala, N. Kyriakides, C.Z. Chrysostomou, A. Ilki, S. Saiidi, L. Torres, N. Taranu, and M. Budescu, "Shake Table Tests on Deficient RC Buildings Strengthened Using Post-tensioned metal straps," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. Ilki and M.N. Fardis, Springer, 2014.

**B115.** Yakut, A., A. Erberik, A. Ilki, H. Sucuoglu, and S. Akkar, "Rapid Seismic Assessment Procedures for the Turkish Building Stock," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. Ilki and M.N. Fardis, Springer, 2014.

**B114.** Al-Gohi, B.H., C. Demir, A. Ilki, M.H. Baluch, and M.K. Rahman, "Assessing Seismic Vulnerability of Unreinforced Masonry Walls Using Elasto-plastic Damage Model," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. Ilki and M.N. Fardis, Springer, 2014.

**B113.** Ahmed, D., M.H. Baluch, M.K. Rahman, and A. Ilki, "Finite Element Modeling of Seismic Performance of Low Strength Concrete Exterior Beam-Column Joints," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. Ilki and M.N. Fardis, Springer, 2014.

**B112.** Goksu, C., A. Uzunhasanoglu, E.C. Seyhan, and A. Ilki, "Seismic Retrofit of Sub-Standard RC Columns with Embedded Aramid FRP Reinforcement," *SMAR2013 Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, 2013.

**B111.** Ugurlu, K., C. Demir, and A. Ilki, "Seismic Assessment of a School Building Constructed with AAC Panels and Experienced 1999 Kocaeli Earthquake," *SMAR2013 Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, 2013.

**B110.** Goksu, C., A. Ilki, and Y. Akkaya, "Destructive and Nondestructive Evaluation of Corrosion of Reinforcing Bars in Concrete," *SMAR2013 Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, 2013.

**B109.** Al-Gohi, B.H., M.H. Baluch, M.K. Rahman, A. Ilki and C. Demir, "Behavior of Heritage Masonry Walls Retrofitted with CFRP Sheets," *SMAR2013 Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, 2013.

**B108.** Saribas, I., M. Ispir, and A. Ilki, "Effects of Sub-standard Detailing of Transverse Reinforcement on the Behavior of Square RC Columns," *The 2013 World Congress on Advances in Structural Engineering and Mechanics*, Jeju (Korea), 2013.

**B107.** Boduroglu, H., P. Ozdemir, E. Binbir, and A. Ilki, "Seismic Damage Assessment Methodology Developed for Turkish Compulsory Insurance System," *The 9<sup>th</sup> Annual International Conference of the International Institute of Infrastructure Renewal and Reconstruction*, Brisbane, 2013.

**B106.** Ghaffari, P., A. Kalyoncuoglu, C. Goksu, and A. Ilki, "An Attempt to Repair Corrosion Damaged Reinforced Concrete Columns Using a Low-cost Method," *VEESD2013, Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics*, Vienna, 2013.

**B105.** Demir, C., E. Dogu, M. Ispir, and A. Ilki, "Seismic Behavior of Ottoman Empire Classical Period Stone Masonry Walls," *10CUEE Tenth International Conference on Urban Earthquake Engineering*, Tokyo, 2013. **(Best Presentation Award to C. Demir).**

**B104.** Ilki, A., and M. Ispir, "Strengthening and Seismic Retrofitting of RC and Masonry Structures with Advanced Composites," *Ninth International Concrete Conference and Exhibition for Sustainable Construction*, Bahrain, 2013. **(Keynote Lecture).**

- B103.** Goksu, C., P. Inci, and A. Ilki, "The Bond-Slip Behavior of Extremely Low Strength RC Columns with Corroded Plain Reinforcing Bars," First International Conference on Performance-Based and Life-Cycle Structural Engineering (PLSE 2012), Hong Kong, 2012.
- B102.** Ilki, A., M. Comert, C. Demir, K. Orakcal, M. Tapan, and N. Kumbasar, "Performance Based Rapid Seismic Assessment Method (PERA) for Existing RC Frames," First International Conference on Performance-Based and Life-Cycle Structural Engineering (PLSE 2012), Hong Kong, 2012.
- B101.** Comert, M., and A. Ilki, "Effects of CFRP Confinement of Columns on Structural Performance against Blast," First International Conference on Performance-Based and Life-Cycle Structural Engineering (PLSE 2012), Hong Kong, 2012.
- B100.** Dalgic, D., M. Ispir, E. Binbir, and A. Ilki, "Effects of Pre-damage on Axial Behavior of CFRP Jacketed Non-Circular Members," Conference on Civil Engineering Infrastructure Based on Polymer Composites, Krakow, 2012.
- B99.** Kalyoncuoglu, A., P. Ghaffari, C. Goksu, and A. Ilki, "Rehabilitation of Corrosion-Damaged Sub-Standard RC Columns using FRP Sheets," International Conference on Advances in Civil Infrastructure Engineering (ICACIE 2012), Changsha, 2012.
- B98.** Gurbuz, T., and Ilki, A. "Performance of Closely Installed Anchor Pairs in Low Strength Concrete under Tension," Fourth International Symposium Bond in Concrete, Brescia, 2012.
- B97.** Cosgun, C., M. Comert, C. Demir, and A. Ilki, "FRP Retrofit of a Full-scale 3D RC Frame," 6th International Conference on FRP Composites in Civil Engineering, Rome, 2012.
- B96.** Ilki, A., Kusunoki, K., C. Demir, M. Comert, K. Orakcal, M. Tapan, A. Tasai, "Turkish-Japanese Joint Reconnaissance Studies after 2011 Van Earthquakes" Workshop to Commemorate 60 Years of Collaboration between Japan and Turkey in Earthquake Engineering, Istanbul, 2012.
- B95.** Comert, M., and A. Ilki, "Seismic Retrofit of a Typical Reinforced Concrete Building through FRP Jacketing of Extended Rectangular Columns," Sixth International Conference on Advanced Composite Materials in Bridges and Structures, ACMBS-VI, Kingston, Ontario, 2012.
- B94.** Demir, C., A. Aydogmus, and A. Ilki, "Short Term Creep Tests of Low Strength Rectangular Concrete Members Jacketed with Carbon FRP Sheets," APFIS 2012, the Third Asia-Pacific Conference on FRP Structures, Hokkaido, February, 2012.
- B93.** Ilki, A., K. Orakcal, M. Tapan, C. Demir, M. Comert, Y. Tuncel, K. Kusunoki, and A. Tasai, "Lessons Learnt From 2011 Van Earthquakes in Turkey in Terms of Structural Engineering," Joint Conference Proceedings, 9th International Conference on Urban Earthquake Engineering/ 4th Asia Conference on Earthquake Engineering, Tokyo, March, 2012.
- B92.** Kusunoki, K., A. Tasai, Y. Hibino, H. Watanabe, Y. Numa, M. Tapan, A. Ilki, "Quick Report of 2011 Van Earthquake," International Symposium on Engineering Lessons Learned from the Giant Earthquake, Tokyo, March, 2012.
- B91.** Kundak, S., H. Turkoglu, A. Ilki, "Social Capital in Risk Perception", SRA-Europe Conference, Zurich, 18-20 June 2012.
- B90.** Dalgic, K.D., M. Ispir, O. Ozel, and A. Ilki, "GFRP Retrofitted RC Frames with Columns Subjected to High Axial Stresses," SMAR2011, First Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Dubai, UAE, February, 2011.

- B89.** Akgun, D., C. Demir and A. Ilki, "Axial Behavior of FRP Jacketed Extended Rectangular Members Constructed with Low Strength Concrete," 5th International Conference on FRP Composites in Civil Engineering, Beijing, September, 2010.
- B88.** İspir, M., K.D. Dalgic, C. Sengul, F. Kuran, M.A. Tasdemir and A. Ilki, "Modulus of Elasticity of Low Strength Concrete," 9th International Conference on Advances in Civil Engineering, Trabzon, September, 2010.
- B87.** Comert, M., C. Goksu, C. Cosgun, M. Ozubek and A. Ilki, "Increasing Deformability of FRP Confined Low and Medium Strength Concrete through a Cement Based Mortar Layer," 9th International Conference on Advances in Civil Engineering, Trabzon, September, 2010.
- B86.** İspir, M., and A. İlki, "Compressive Behavior of Historical Masonry Subjected to Monotonic and Cyclic Loads," International Workshop on Preservation of Heritage Structures using ACM and SHM, Ottawa, August, 2010.
- B85.** İspir, M., H. Özkaynak, E. Yüksel, and A. İlki, "Diagonal Tension Tests of Hollow Brick Walls Retrofitted with CFRP," Turkish Saudi Workshop on Structural and Earthquake Engineering, Istanbul, June, 2010.
- B84.** Göksu, Ç., A. İlki, and N. Kumbasar, "Failure Mechanisms of Old and New Type RC Columns after Reinforcement Corrosion, TCCE-JSCE/TR-JSCE Joint Symposium on Concrete Engineering, Istanbul, June, 2010.
- B83.** Karatuna, Y., K. Eraybar, K. Okazaki, and A. Ilki, "Seismic Risk Perception in Istanbul: Comparison of Avclar and Bakırköy Districts," UNESCO-IPRED-ITU Workshop, Make the People a Part of the Solution, International Platform for Reducing Earthquake Disasters (IPRED), SC/BES/DR/2010/3, Division of Basic and Engineering Science, Paris, France, UNESCO 2010.
- B82.** Yuksel, E., A. Ilki, and F.Karadogan, "Recent Experimental Works in ITU," UNESCO-IPRED-ITU Workshop, Make the People a Part of the Solution, International Platform for Reducing Earthquake Disasters (IPRED), SC/BES/DR/2010/3, Division of Basic and Engineering Science, Paris, France, UNESCO 2010.
- B81.** Comert, M., C. Goksu, and A. İlki, "Towards a Tailored Stress-Strain Behavior for FRP Confined Low Strength Concrete," fib Congress, Washington DC, May, 2010.
- B80.** Kundak, S., H. Turkoglu, A. Ilki, "Earthquake Risk Perception Of Istanbul Residents", International Disaster Risk Reduction Conference, Davos, 30 May-3 June 2010.
- B79.** Gedik, O., C. Demir, and A. Ilki, "Effect of Unconfined Concrete Strength on the Strength and Deformability Predictions of FRP Confined Concrete," Asia-Pacific Conference on FRP in Structures (APFIS 2009), Seoul, December, 2009.
- B78.** Ilki, A. "Earthquakes, Existing Buildings and Seismic Design Codes in Turkey," 11th Arab Structural Engineering Conference, Dhahran, October, 2009, **(invited paper)**.
- B77.** Comert, M., and A. Ilki, "Blast Resistance Assessment of a Typical Public Building in Turkey," International Conference UACEG 2009: Science & Practice, Sofia, 2009.
- B76.** Karatuna, Y., K. Okazaki and A. Ilki, "Comparison of Earthquake Risk Perception of Central and Local Government Authorities in Turkey," Sakarya International Symposium of Earthquake Engineering, Sakarya, October, 2009.
- B75.** Goksu, C., E. Binbir, A. Ilki and N. Kumbasar, "Seismic Behavior of RC Columns with Corroded Deformed Reinforcing Bars," Asian Pasific Network of Centers for Earthquake Engineering, ANCER Workshop 2009, Illinois, USA, August, 2009.
- B74.** Comert, M., C. Goksu and A. Ilki, "External Confinement of Concrete with Post-Tensioned GFRP Sheets-A Pilot Study," FRPRCS-9, Sydney, Australia, 2009.

- B73.** Ispir, M., C. Demir, A. Ilki and N. Kumbasar, "Evaluation of Test Methods for Seismic Safety Assessment of Masonry Buildings," 8th International Seminar on Structural Masonry, ISSM08, Istanbul, 2008.
- B72.** Okazaki, K., A. Ilki, N. Ahmad, R.C. Kandel and H. Rahayu, "Seismic Risk Perception of People for Safer Housing," 14th World Conference on Earthquake Engineering, 14WCEE, Beijing, China.
- B71.** Goksu, C., B. Demirtas, C. Demir, A. Ilki and N. Kumbasar, "Seismic Behavior of Low Strength RC Columns with Corroded Plain Reinforcing Bars," 14th World Conference on Earthquake Engineering, 14WCEE, Beijing, China.
- B70.** Bedirhanoglu, I., A. Ilki, O. Incecik and N. Kumbasar, "Retrofit of Concrete Panels with Prefabricated HPFRCC Plates," 14th World Conference on Earthquake Engineering, 14WCEE, Beijing, China.
- B69.** Ilki, A., M. Ispir, F. As, C. Demir and N. Kumbasar, "FRP Retrofit of Walls Constructed with Historical Bricks," Challenges for Civil Construction, CCC2008, Porto, 2008.
- B68.** Ilki, A., I. Bedirhanoglu and N. Kumbasar, "Seismic Retrofit of Beam-Column Joints with FRP Sheets," Fifth International Conference on Advanced Composite Materials in Bridges and Structures, ACMBS-V, Winnipeg, Manitoba, 2008.
- B67.** Ilki, A., C. Demir and N. Kumbasar, "Effects of Pre-damage and cyclic compression on axial behavior of FRP jacketed concrete," Asia-Pacific Conference on FRP in Structures, Hong Kong, 2007.
- B66.** Gurbuz, T., Y. Kaya, A. Ilki and N. Kumbasar, "Pullout Performance of Retrofit Adhesive Anchors in Low Strength Concrete," Connections between Steel and Concrete, 2nd Symposium on Connections between Steel and Concrete, Eligehausen, R.; Fuchs, W.; Genesio, G; Grosser, Stuttgart, 2007.
- B65.** Demir, C., D. Acar, S.O. Terzi, M. Ispir, B. Demirtas, A. Ilki and N. Kumbasar, "Preliminary Structural Assessment of Kariye Monument-Northern Annex", Int. Symp. Studies on Historical Heritage, Antalya, 2007.
- B64.** Ilki, A., I. Bedirhanoglu, Y. Candan and N. Kumbasar, "Retrofit of Low Strength Concrete Panels with Frp Sheets," FRPRCS-8, Patras, 2007.
- B63.** Ilki, A., C. Goksu, C. Demir and N. Kumbasar, "Seismic Analysis of a RC Frame Building with FRP Retrofitted Infill Walls," 6th International Conference on Fracture Mechanics for Concrete and Concrete Structures, FraMCoS-6, Catania, 2007.
- B62.** Ilki, A., E.C. Seyhan and N. Kumbasar, "Pull-out Behavior of Chemically Bonded Deformed Bars Typically Used During Structural Retrofitting," 9th Canadian Conference on Earthquake Engineering, Ottawa, 2007.
- B61.** Ilki, A., M. Ispir, C. Demir, E. Karamuk, F. As, N. Cini, M. Aydin, G. Toponder, T. Tulun, N. Kumbasar and S. Akman, "Seismic Safety of a Historical Row House Complex Built during Ottoman Period," 9th Canadian Conference on Earthquake Engineering, Ottawa, 2007.
- B60.** Kuran, F., C. Demir, O. Koroglu, C. Kocaman and A. Ilki, "Seismic Safety Analysis of an Existing 1502 Type Disaster Building Using New Version of Turkish Seismic Design Code," ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, 2007.
- B59.** Ilki, A., D. Akgun, R.O. Goray, C. Demir, N. Kumbasar, "Seismic Strengthening of Low Strength Concrete Columns by External Confinement using Prefabricated SFRCC Panels," 19<sup>th</sup> Australasian Conference on the Mechanics of Structures and Materials, Canterbury, 2006.

- B58.** Ilki, A., I. Bedirhanoglu, I.H. Basegmez, C. Demir, N. Kumbasar, "Shear Retrofit of Low Strength Reinforced Concrete Short Columns with GFRP Composites," *3rd International Conference on Composites in Civil Engineering (CICE2006), Miami, 2006.*
- B57.** Ilki, A., M. Ispir, C. Demir, N. Kumbasar, S. Akman, "An Outline of the Seismic Behavior of Historical Structures in North Western Anatolia," *International Conference on Structural Analysis of Historical Constructions (SAHC2006), New Delhi, 2006.*
- B56.** İlki, A., İ. Bedirhanoglu, C. Demir, N. Kumbasar, "Prediction of the Behavior of FRP Confined RC Columns under Axial Load and Flexure," *2nd International fib Congress, Naples, 2006.*
- B55.** İlki, A., C. Demir, C. Goksu, N. Kumbasar, "Prefabricated SFRC Panels for Occupant Friendly Seismic Retrofit of Reinforced Concrete Columns," *8th National Conference on Earthquake Engineering, San Francisco, 2006.*
- B54.** Goksu, C., C. Demir, K. Darilmaz, A. Ilki, N. Kumbasar, "Static Nonlinear Analysis of a Retrofitted Typical Reinforced Concrete Building in Turkey," *8th National Conference on Earthquake Engineering, San Francisco, 2006.*
- B53.** Erol, G., C. Demir, A. Ilki, E. Yuksel, F. Karadogan, "Effective Strengthening of RC Frames with and without Lap Splice Problems," *8th National Conference on Earthquake Engineering, San Francisco, 2006.*
- B52.** İlki, A., C. Demir, D. Akgün, O. Göray, N. Kumbasar, "Retrofit of Concrete Members with Externally Bonded Prefabricated SFRCJ Jackets," *16th European Conference on Fracture, Greece, 2006.*
- B51.** Köksal, F., A. İlki, F. Bayramov, M.A. Tasdemir, "Mechanical Behavior and Optimum Design of SFRC Plates," *16th European Conference on Fracture, Greece, 2006.*
- B50.** İlki, A., C. Demir, İ. Bedirhanoglu, N. Kumbasar, "Flexural Behavior of FRP Jacketed Reinforced Concrete Columns," *Proc. Third International Conference on Composites in Construction, Lyon, 2005.*
- B49.** İlki, A., K. Darilmaz, C. Demir, İ. Bedirhanoglu, N. Kumbasar, "Non-linear Seismic Analysis of a Reinforced Concrete Building with FRP Jacketed Columns," *Proc. fib Symposium Keep Concrete Attractive, Budapest, 2005.*
- B48.** Demir, C., A. İlki, N. Kumbasar, "Moment-Curvature Relationships for Columns Jacketed with FRP Composites," *Proc. fib Symposium Keep Concrete Attractive, Budapest, 2005.*
- B47.** Özkul, H., A. İlki, "Polymeric Materials and Composites for Repairing and Retrofitting," *Proc. Third International Conference on Construction Materials, Vancouver, 2005.*
- B46.** İlki, A., E. Karamuk, O. Peker, N. Kumbasar, "Axial Behavior of Reinforced Concrete Columns Jacketed with FRP Composites," *Nato Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, Istanbul, 2005.*
- B45.** Yuksel, E., A. İlki, G. Erol, C. Demir, F. Karadoğan, "Seismic Retrofit of Infilled Reinforced Concrete Frames with CFRP Composites," *Nato Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, Istanbul, 2005.*

- B44.** Ilki, A., N. Kumbasar, "Reinforced Concrete Columns Retrofitted with Innovative Materials," *Proc. International Symposium on Earthquake Engineering*, Kobe, 2005.
- B43.** Guvensoy, G., F. Bayramov, A. Ilki, C. Sengul, M.A. Tasdemir, A.N. Kocaturk, M. Yerlikaya, *Proc. International Symposium on Ultra High Performance Concrete*, Kassel, 2004.
- B42.** Ilki, A., V. Koc, O. Peker, N. Kumbasar, "Strengthening of RC Columns with Inadequate Reinforcement," *Proc. FRP Composites in Civil Engineering CICE 2004*, Adelaide, 2004.
- B41.** Sagbas, G., A. Ilki, B. Ergun, M.A. Tasdemir, M. Aydogan and M.O. Altan, "Experiments on RC Slabs Strengthened by Anchor Bolted Concrete," *Proc. 6<sup>th</sup> International Conference on Advances in Civil Engineering*, Istanbul, 2004.
- B40.** Köksal, F., A. Ilki, F. Bayramov and M.A. Tasdemir, "Deformation and Fracture of Steel Fiber Reinforced Concretes," *Proc. 6<sup>th</sup> International Conference on Advances in Civil Engineering*, Istanbul, 2004.
- B39.** Bedirhanoglu, İ. and A. Ilki, "Theoretical Moment-Curvature Relationships for Reinforced Concrete Members and Comparison with Experimental Data," *Proc. 6<sup>th</sup> International Conference on Advances in Civil Engineering*, Istanbul, 2004.
- B38.** İlki, A., A. Tezcan, V. Koç ve N. Kumbasar, "Seismic Retrofit of Non-ductile Rectangular Reinforced Concrete Columns by CFRP Jacketing," *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, 2004.
- B37.** İlki, A., E. Yılmaz, C. Demir ve N. Kumbasar, "Prefabricated SFRC Jackets for Seismic Retrofit of Non-ductile Rectangular Reinforced Concrete Columns," *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, 2004.
- B36.** Takahashi, A., S. Tago, A. İlki, T. Okada, "Seismic Capacity Evaluation of Existing Reinforced Concrete Buildings in Turkey (Effect of Retrofit)," *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, 2004.
- B35.** Boduroğlu, H., P. Özdemir, A. İlki, S. Şirin, C. Demir, F. Baysan, "Towards a Modified Rapid Screening Method for Existing Medium Rise RC Buildings in Turkey," *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, 2004.
- B34.** İlki, A., C. Demir ve N. Kumbasar, "Inelastic Behaviour of RC Jacketed Damaged Concrete Sections under Reversed Cyclic Flexure," *Proc. 2<sup>nd</sup> Int. Conference on Structural Engineering, Mechanics and Computation*, Cape Town, 2004.
- B33.** İlki, A., C. Demir ve N. Kumbasar, "Effect of Confined Concrete Stress-Strain Model on the Moment-Curvature Relationships of Reinforced Concrete Members," *Proc. 2<sup>nd</sup> Int. Conference on Structural Engineering, Mechanics and Computation*, Cape Town, 2004.
- B32.** Bayramov, F., A. İlki, C. Taşdemir, M.A. Taşdemir ve M. Yerlikaya, "An Optimum Design for Steel Fiber Reinforced Concretes under Cyclic Loading," *Proc. 5<sup>th</sup> Int. Conference on Fracture Mechanics of Concrete and Concrete Structures*, Vail Colorado, 2004.
- B31.** Bayramov, F., T. Aydöner, A. İlki, C. Taşdemir ve M.A. Taşdemir, "SFRCs for Concrete Roads in Heavily Trafficked Situations," *Proc. 9<sup>th</sup> Int. Symposium on Concrete Roads*, İstanbul, 2004.

**B30.** Taskin, B., P. Ozdemir, A. Sezen, C. Vatansever, A. Ilki, S. Taskin, H. Boduroglu, "Critical Review on the Statistical Evaluation of the Data Collected on Building Type Structures in Kaynasli City after 1999 Duzce Earthquake," *Proc. 11<sup>th</sup> Int. Conference on Soil Dynamics and Earthquake Engineering*, San Francisco, 2004.

**B29.** İlki, A., V. Koç, B. Ergun, M.O. Altan, N. Kumbasar, "Photogrammetrically Measured Deformations of FRP Wrapped Low Strength Concrete," *Proc. 6<sup>th</sup> Int. Symposium on FRP Reinforcement for Concrete Structures*, Singapore, Vol. I, 673-682, World Scientific, Singapore, 2003.

**B28.** Karadoğan, F., E. Yüksel, A. İlki, "Structural Behaviour of Ordinary RC Bare and Brittle Partitioned Frames with and without Lap Splice Deficiency," *Proc. of the NATO Science for Peace Workshop on Seismic Assessment and Rehabilitation of Existing Buildings*, İzmir, 335-356, Kluwer, Dordrecht, 2003.

**B27.** Akkaya, Y., A. İlki, M.A. Taşdemir ve N. Kumbasar, "Self-Compacting Concrete for Light Weight Slabs with 3-D Reinforcement," *Proc. 1<sup>st</sup> N. American Conference on the Design and Use of Self-Consolidating Concrete*, Evanston, 457-467, 2002.

**B26.** Taşdemir, M.A., A. İlki, ve M. Yerlikaya, "Mechanical Behaviour of Steel Fibre Reinforced Concrete Used in Hydraulic Structures," *Proc. International Conference on Hydropower and Dams*, Antalya, 159-166, 2002.

**B25.** İlki, A., N. Kumbasar ve V. Koç, "Low and Medium Strength Concrete Members Confined by Fiber Reinforced Polymer Jackets," *Proc. 5<sup>th</sup> International Conference on Advances in Civil Engineering*, İstanbul, Vol. I, 517-525, İstanbul Technical University, İstanbul, 2002, (bu çalışma hakemlerden en yüksek değerlendirme puanını alan bildirilerden biri olduğu için daha sonra değiştirilmeden *ARI Bulletin of the Technical University of Istanbul* dergisinde yayınlanmak üzere kabul edildi ve 2003 yılında yayınlandı).

**B24.** Özyurt, N., A. İlki, C. Taşdemir, M. Yerlikaya ve M.A. Taşdemir, "Mechanical Behaviour of High Strength Steel Fiber Reinforced Concretes with Various Steel Fiber Content," *Proc. 5<sup>th</sup> International Conference on Advances in Civil Engineering*, İstanbul, Vol. II, 885-894, İstanbul Technical University, İstanbul, 2002.

**B23.** İlki, A., N. Kumbasar ve V. Koç, "Effect of Shape of Cross-section for CFRP Wrapped Concrete," *Proc. 12<sup>th</sup> European Conference on Earthquake Engineering*, London, on CD, Paper No:020, Elsevier, Oxford, 2002.

**B22.** Özdemir, P, B. Taşkın, C. Vatansever, A. Sezen, A. İlki ve H. Boduroğlu, "November 12, 1999 Duzce Earthquake : Reconnaissance Report for the Town of Kaynasli," *Proc. 12<sup>th</sup> European Conference on Earthquake Engineering*, London, on CD, Paper No:342, Elsevier, Oxford, 2002.

**B21.** İlki, A., N. Kumbasar ve V. Koç, "Strength and Deformability of Low Strength Concrete Confined by Carbon Fiber Composite Sheets," *Proc. ASCE 15<sup>th</sup> Engineering Mechanics Conference*, New York, on CD, Paper No:101, Columbia University, New York, 2002.

**B20.** İlki, A. ve N. Kumbasar, "Strengthening of Damaged Concrete Members by Carbon Fiber Reinforced Polymer Composites," *Proc. International Conference on FRP Composites in Civil Engineering*, Hong Kong, Vol. I, 781-788, Elsevier, Oxford, 2001.

**B19.** İlki, A. "An Overview of Fire and Emergency Services in Japan, Australia and New Zealand," *Proc. International Workshop on the Restructuring of Turkish Fire Brigades under the Light of International Experiences*, İstanbul, 115-136, İTÜ Press, İstanbul, 2001.

**B18.** Yentürk, N., A. Ünlü, E. Tarı ve A. İlki, "A Model Proposal for the Restructuring of Turkish Fire Administration," *Proc. International Workshop on the Restructuring of Turkish Fire Brigades under the Light of International Experiences*, İstanbul, 175-207, İTÜ Press, İstanbul, 2001.

**B17.** İlki, A. ve N. Kumbasar, "Cyclic Behavior of Concrete Members Rehabilitated and Strengthened by Using Carbon Fiber Sheets," *Proc. 2<sup>nd</sup> International Conference on Engineering Materials*, San Jose, Vol. II, 483-492, CSCE/JSCEE, Montreal/Tokyo, 2001.

**B16.** Boduroğlu, H, B. Taşkın, P. Özdemir, A. Sezen, A. İlki, C. Vatansever, Y. Durgun, H. Atahan ve D. Güney, "Damage Survey in the Town of Kaynasli After November 12<sup>th</sup> Düzce Earthquake," *Proc. Seminar on Earthquake Hazards and Countermeasures for Existing Fragile Buildings*, Bucharest, 237-243, Independent Film, Bucharest, 2000.

**B15.** İlki, A., N. Kumbasar ve Ö. Abit, "Experimental and Theoretical Energy Dissipation of CFRP Wrapped Concrete," *Proc. Technology Transfer Seminar on Advanced FRP Materials for Civil Structures*, Bologna, Ceb/Fip, 2000.

**B14.** İlki, A. ve N. Kumbasar, "Hysteretic Behavior of Reinforced Concrete Members," *Proc. 4<sup>th</sup> International Conference on Advances in Civil Engineering*, Gazimağusa, Vol. I, 269-276, Bizim Büro Basımevi, Ankara, 2000.

**B13.** İlki, A. ve N. Kumbasar, "Marmara and Duzce Earthquakes in Turkey-Structural Damage," *Proc. ASCE 14<sup>th</sup> Engineering Mechanics Conference*, Austin, on CD, University of Texas, Austin, 2000.

**B12.** İlki, A. ve N. Kumbasar, "Hysteresis Model for Reinforced Concrete Members," *Proc. ASCE 14<sup>th</sup> Engineering Mechanics Conference*, Austin, on CD, University of Texas, Austin, 2000.

**B11.** İlki, A. ve N. Kumbasar, "Theoretical and Experimental Energy Dissipation of Reinforced Concrete," *Proc. 3<sup>rd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 167-177, İstanbul Technical University, İstanbul, 2000.

**B10.** Taşkın, B., P. Özdemir, A. Sezen, A. İlki, C. Vatansever, Y. Durgun, H. Atahan, D. Güney ve H. Boduroğlu, "Damage Investigation in Kaynasli after Duzce Earthquake," *Proc. 3<sup>rd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. II, 187-195, İstanbul Technical University, İstanbul, 2000.

**B9.** Kumbasar, N. ve A. İlki, "Behavior of Symmetrically Reinforced Concrete Sections under Cyclic Loading," *Proc. Uğur Ersoy Symposium on Structural Engineering*, Ankara, 177-201, METU Press, Ankara, 1999.

**B8.** İlki, A., P. Özdemir ve T. Fukuta, "Observed Behavior of Confined Concrete under Compression," *Proc. 11<sup>th</sup> European Conference on Earthquake Engineering*, Paris, on CD, Elsevier, Oxford, 1998.

**B7.** Yüksel, E., A. İlki ve F. Karadoğan, "Strengthening of Reinforced Brittle Masonry," *Proc. 11<sup>th</sup> European Conference on Earthquake Engineering*, Paris, on CD, Elsevier, Oxford, 1998.



**B6.** İlki, A., K. Darılmaz, İ. Bakan, M. Zorbozan, E. Yüksel, H. Saruhan ve F. Karadoğan, "Jacketing of Prefabricated Columns," *Proc. 2<sup>nd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 329-336, İstanbul Technical University, İstanbul, 1998.

**B5.** İlki, A., K. Darılmaz, E. Yüksel ve F. Karadoğan, "Upgraded and/or Strengthened Slab Elements," *Proc. 2<sup>nd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 545-550, İstanbul Technical University, İstanbul, 1998.

**B4.** Yüksel, E., A. İlki ve F. Karadoğan, "Brick Masonry Infill Walls Integrated to the Peripheral RC Elements and Strengthening," *Proc. 2<sup>nd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 309-317, İstanbul Technical University, İstanbul, 1998.

**B3.** Mourtaja, W., E. Yüksel, A. İlki ve F. Karadoğan, "Strengthening and/or Upgrading the RC Frames by means of Special Shotcreted Diaphragms," *Proc. 2<sup>nd</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 318-326, İstanbul Technical University, İstanbul, 1998.

**B2.** İlki, A., P. Özdemir ve T. Fukuta, "Complete Stress-Strain Behavior of Confined Concrete under Compression," *Proc. 1<sup>st</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 101-111, İstanbul Technical University, İstanbul, 1997.

**B1.** Karadoğan, F., E. Yüksel ve A. İlki, "Deformability Limits and Ductility of Reinforced Concrete Bare Frames," *Proc. 1<sup>st</sup> Japan-Turkey Workshop on Earthquake Engineering*, İstanbul, Vol. I, 53-67, İstanbul Technical University, İstanbul, 1997.

### **C. Yazılan uluslararası kitaplar veya kitaplarda bölümler:**

**C20.** İlki, A., M. Motavalli, P. Inci, and M. Kohli, *Proceedings of Third Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, 2015.

**C19.** İlki, A., and Fardis, M., "Seismic Evaluation and Rehabilitation of Structures, Springer, 2014.

**C18.** Garcia, R., I. Hajirasouliha, K. Pilakoutas, Y. Helal, Y. Jemaa, M. Guadagnini, M. Petkovski, P. Mongabure, M.A. Ciupala, N. Kyriakides, C.Z. Chrysostomou, A. İlki, S. Saiidi, L. Torres, N. Taranu, and M. Budescu, "Shake Table Tests on Deficient RC Buildings Strengthened Using Post-tensioned metal straps," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. İlki and M.N. Fardis, Springer, 2014.

**C17.** Yakut, A., A. Erberik, A. İlki, H. Sucuoglu, and S. Akkar, "Rapid Seismic Assessment Procedures for the Turkish Building Stock," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. İlki and M.N. Fardis, Springer, 2014.

**C16.** Al-Gohi, B.H., C. Demir, A. İlki, M.H. Baluch, and M.K. Rahman, "Assessing Seismic Vulnerability of Unreinforced Masonry Walls Using Elasto-plastic Damage Model," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. İlki and M.N. Fardis, Springer, 2014.

**C15.** Ahmed, D., M.H. Baluch, M.K. Rahman, and A. İlki, "Finite Element Modeling of Seismic Performance of Low Strength Concrete Exterior Beam-Column Joints," in *Seismic Evaluation and Rehabilitation of Structures*, ed. A. İlki and M.N. Fardis, Springer, 2014.

**C14.** İlki, A., M. Motavalli, C. Goksu, and B. Havranek, *Proceedings of Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, 2013.

**C13.** Bedirhanoglu, I., A. Ilki, and N. Kumbasar, "Innovative Techniques for Seismic Retrofitting of RC Joints," in *Innovative Materials and Techniques in Concrete Construction*, ed. M.N. Fardis, Springer, 2012 (invited paper).

**C12.** Ilki, A., M. Baluch, and C. Demir (editors), *Turkish-Saudi Workshop on Structural and Earthquake Engineering*, 2010.

**C11.** Ilki, A., F. Karadogan, S. Pala, E. Yuksel (editors), *Seismic Risk Assessment and Retrofitting*, Springer, 2009.

**C10.** Ilki, A., C. Demir, N. Kumbasar, O. Peker, E. Karamuk, D. Akgun, "Computation of the Resistance of Structural Elements Considering Steel and FRP," in *Guidelines for Seismic Vulnerability Reduction in the Urban Environment*, ed. A. Plumier, 84-100, IUSS Press, Pavia, 2007.

**C9.** Boduroglu, M.H., P. Ozdemir, A. Ilki, E. Binbir, "Seismic Safety Screening Method," in *Guidelines for Seismic Vulnerability Reduction in the Urban Environment*, ed. A. Plumier, 1-18, IUSS Press, Pavia, 2007.

**C8.** Ilki, A., O. Peker, E. Karamuk and N. Kumbasar, "External Confinement of Low-Strength Brittle Reinforced Concrete Short Columns," in *ACI-SP-238*, eds. Y. Xiao, S. Kunnath and W. Yi, American Concrete Institute, 363-380, Farmington Hills, Michigan, 2006. (28 papers were selected after review of 60 papers presented in International Symposium on Confined Concrete (ISSC-2004) held at Hunan University, Changsha, China, according to the policies of American Concrete Institute).

**C7.** Yuksel, E., A. Ilki, A., G. Erol, C. Demir and F. Karadogan, "Seismic Retrofit of Infilled Reinforced Concrete Frames with CFRP Composites," in *Advances in Earthquake Engineering for Urban Risk Reduction*, eds. T. Wasti and G. Ozcebe, NATO Science Series, 285-300, Springer, Netherlands, 2006.

**C6.** Ilki, A., O. Peker, E. Karamuk, C. Demir, N. Kumbasar, "Axial Behavior of RC Columns Retrofitted with FRP Composites," in *Advances in Earthquake Engineering for Urban Risk Reduction*, eds. T. Wasti and G. Ozcebe, NATO Science Series, 301-316, Springer, Netherlands, 2006.

**C5.** İlki, A., *FRP Strengthening of RC Columns, in Retrofitting of Concrete Structures by Externally Bonded FRPs with Special Emphasis on Seismic Applications, fib Bulletin 35, Sprint-Digital-Druck, Stuttgart, 2006.*

**C4.** Pala, S. ve A. İlki, (Editors) *Proceedings of Fifth International Conference on Advances in Civil Engineering*, Vol. 1, 2 and 3, İstanbul Teknik Üniversitesi, İstanbul, 2002.

**C3.** Yentürk, N., A. Ünlü, E. Tarı ve A. İlki, (Editors) *Proceedings of the Workshop on the Restructuring of Turkish Fire Brigades under the Light of International Experiences*, İstanbul Teknik Üniversitesi-Afet Yönetim Merkezi Yayınları, No. 15, 2002.

**C2.** Boduroğlu, H., P. Özdemir, A. Ansal ve A. İlki, (Editors) *Proceedings of Third Japan-Turkey Workshop on Earthquake Engineering*, Vol. 1 and 2, Istanbul Technical University, İstanbul, 2000.

**C1.** İlki, A., P. Özdemir ve T. Fukuta, "Confinement Effect of Reinforced Concrete Columns with Circular Cross-Section", *BRI Research Paper*, No. 143, Building Research Institute, Ministry of Construction, Japan, 1997.

#### **D. Diğer hakemli dergilerde yayımlanan makaleler:**

**D11.** Ilki, A. and U. Demir, "Factors Affecting Seismic Behaviour of Reinforced Concrete Structures after Fire Exposure", *NED University Journal of Research*, **1**, 31-41 (2019).

**D10.** Eyupgiller, K.K., H. Memnun, A. Gulec, A. Ilki, "Sah Sultan Camii Restorasyon Uygulamasi oncesi Calismalar", *Restorasyon Yilligi Dergisi*, (2014).

**D9.** Kundak, S., H. Turkoglu, A. Ilki, "Risk Perception in Istanbul: An Earthquake-prone City", *ITU Journal of the Faculty of Architecture*, **11(1)**, 117-137 (2014).

**D8.** Bedirhanoglu, I., A. Ilki, "Düşük Dayanımlı Betona Sahip Betonarme Elemanların Güçlendirilmesi için HPFRCC", *İTÜ Dergisi/d*, **8(6)**, 146-156 (2009).

**D7.** İlki, A., T. Fukuta ve P. Özdemir, "Sargılı Beton Davranışı ve Üç Doğrudan Oluşan Gerilme-Şekildeğiştirme Modeli", *İMO Teknik Dergi, TMMOB*, **14(1)**, 2853-2871 (2003).

**D6.** İlki, A., N. Kumbasar ve V. Koç, "Low and Medium Strength Concrete Members Confined by Fiber Reinforced Polymer Jackets", *ARI Bulletin of the Technical University of Istanbul*, **53(1)**, 110-115 (2003).

**D5.** İlki, A., C. Demir, A. Karadeniz ve N. Kumbasar, "Hasarlı Betonarme Elemanların Çelik Köşebent ve Lamalar ile Güçlendirilmesi", *İTÜ Dergisi/d*, **2(3)**, 3-16 (2003).

**D4.** İlki, A. ve N. Kumbasar, "Karbon Lif Takviyeli Polimer Kompozit Malzeme İle Hasarlı Betonarme Elemanların Onarım ve Güçlendirmesi", *İMO Teknik Dergi, TMMOB*, **13(1)**, 2597-2616 (2002).

**D3.** Taşdemir, M.A., F. Bayramov, A. İlki ve M. Yerlikaya, "Prefabrike Elemanlar İçin Çelik Tel Donatılı Betonlar", *Beton Prefabrikasyon Dergisi*, **16(63)**, 5-12 (2002).

**D2.** İlki, A. ve N. Kumbasar, "Sargılı Beton için Mevcut Modellerin Deneysel Verilerle Karşılaştırılması", *İMO Teknik Dergi, TMMOB*, **12(3)**, 2419-2434 (2001).

**D1.** Kumbasar, N. ve A. İlki, "Yön Değiştiren Tekrarlı Eğilme Etkilerine Maruz Betonarme Kesitler için Kuramsal ve Deneysel Moment-Eğrilik İlişkileri", *İMO Teknik Dergi, TMMOB*, **12(1)**, 2291-2315 (2001).

#### **E. Ulusal bilimsel toplantılarda sunulan ve bildiri kitaplarında basılan bildiriler:**

**E57.** Ilki, A., E. Töre, M. Cömert, C. Demir, A.O. Ateş, "Sünek Olmayan Mevcut Betonarme Binaların Deprem Davranışlarının Araştırılmasına Yönelik Tam Ölçekli Bina Deneyleri," *Betonarme Yapılar Semineri, İstanbul*, 6 Şubat 2019. **(Davetli Konuşma)**.

**E56.** Cengiz, A., T. Gürbüz, A. İlki, M. Aydoğan, "Betonarme Elemanların Farklı Şekildeğiştirme Hızları Altındaki Davranışı," *Betonarme Yapılar Semineri, İstanbul*, 6 Şubat 2020.

**E55.** Ilki, A., E. Tore, M. Comert, C. Demir, A.O. Ates, "Sünek Tasarlanmamış Mevcut Betonarme Yapıların Depremi Benzeştiren Yükler Altında Davranışı," *21. Ulusal Mekanik Kongresi, Niğde*, 2-6 Eylül 2019. **(Davetli Konuşma)**.

**E54.** Bal, I.E., E. Smyrou, M. Alaboz, N. Yavuzer, C. Demir, M. Comert, A. Ilki, "Büyük Ölçekli Kemerli Yiğma Yapı Numunesinin Tersinir Tekrarlı Yükler Altında Davranışı", *Kargir Yapılarda Koruma Semineri, İstanbul*, 5-6 Aralık 2017.

**E53.** Cavunt, Y., D. Cavunt, A. Ilki, "Ankrajların Çatlaklı Betondaki Davranışının İncelenmesi", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E52.** Yılmaz, C., G. Dok, A. Ilki, N. Caglar, O. Kırtel, "Çarpma Etkisi Altındaki Betonarme Kirişlerin İncelenmesi", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E51.** Senturk, M., S. Pul, A. Ilki, "Prekast Betonarme Yapı Elemanları için Moment Aktaran Cıvatalı Birleşim Sistemi", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E50.** Sahinkaya, Y., K. Orakcal, A. Ilki, "Mevcut Yapılardaki Betonarme Perdelerin Tekrarlı Yatay Yükler Altındaki Performansı ve Deprem Etkilerine karşı Güçlendirilmesi", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E49.** Bas, S., N. Apaydin, A. Ilki, N. Catbas, "Yapı Sağlığı İzleme (SHM): Gerçek ve Ölçeklenmiş Asma Köprü Sistemlerine Uygulanması", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E48.** Saribas, I., C. Goksu, A. Ilki, "Yeşil Betonun Yapısal Eleman Üretiminde Kullanılması", Altıncı Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, 17-18 Kasım 2017.

**E47.** Ilki, A. ve E. Töre, "Mevcut Yapıların Deprem Güvenliğinin Değerlendirilmesi ve Güçlendirme", İzmir ve Deprem Konferansı, 28-29 Eylül 2017. **(Davetli Konuşma).**

**E46.** Ilki, A., M. Ispir, C. Demir, "Yığma Binaların Tasarımında Gelişmeler ve Deprem Yönetmeliğine Yansımaları", Prof.Dr. Hasan Boduroğlu Sempozyumu, İstanbul, 2016. **(Davetli Konuşma).**

**E45.** Saribas, I., C. Goksu, A. Ilki, "Deprem Yükleri Altında Geri Dönüşümlü Agregalı Katkılı Beton ile Üretilen Betonarme Elemanların Performansı", Prof.Dr. Hasan Boduroğlu Sempozyumu, İstanbul, 2016.

**E44.** Ilki, A., K. Orakcal, M. Comert, P. Gulkan, "Az Katlı Düzenli ve Yerinde Dökülmüş Betonarme Binalar için Basitleştirilmiş Deprem Tasarımı Kuralları, 3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, İzmir, 2015. **(Davetli Tema Konuşması).**

**E43.** Ilki, A., M. Comert, C. Demir, "Sivas Gökmedrese: Yapı Mühendisliği Ön Değerlendirmeleri", Beşinci Tarihi Eserlerin Güçlendirilmesi ve Geleceğe Güvenle Devredilmesi Sempozyumu, Erzurum, 2015.

**E42.** Ilki, A., M. Comert, K. Orakcal, P. Gulkan, "Az Katlı Düzenli Betonarme Binalar için Alternatif Basitleştirilmiş Deprem Tasarımı", 8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, 2015.

**E41.** Akalp, S., K. Orakcal, H. Lus, A. Ilki, U. Ersoy, "Az ve Orta Yükseklikteki Betonarme Binaların Ön Tasarımı için Basit bir Yöntemin Değerlendirilmesi", 8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, 2015.

**E40.** Tore, E., A.O. Ates, S. Khoshkholghi, M. Marasli, A. Ilki, "Püskürtme GRC ve Bazalt Tekstil Takviyeli GRC ile Süneklik Artışına Yönelik Güçlendirme", 8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, 2015.

**E39.** Ceylan, O., M.S. Culfik, H. Catalkaya, M.A. Yilmaz, H. Tokgoz, A. Ilki, "19. Yüzyıl Yapımı Geniş Açıklıklı ve Yüksek Yığma Sanayi Yapısının Deprem Performansını Etkileyen Kritik Faktörler", 8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, 2015.

**E38.** Ilki, A., C. Demir, C. Goksu, M. Comert, A.O. Ates, E. Tore, vd., "Mevcut Betonarme Binalar üzerinde Gerçekleştirilen Statik ve Dinamik Deneyler", Yapı Mekaniği Laboratuvarları 5. Toplantısı, Kayseri, 2015. **(Çağrılı Konuşma)**.

**E37.** Ates, A.O, E. Tore, M. Marasli, A. Ilki, "Hasarlı Betonarme Kolonların Bazalt Tekstil Donatılı Cam Lifli Püskürtme Beton ile Güçlendirilmesi", Yapı Mekaniği Laboratuvarları 5. Toplantısı, Kayseri, 2015.

**E36.** Yılmaz, C., M. Aktas, G. Dok, A. Ilki, "Betonarme Kolonların Darbe Etkisindeki Davranışlarının Deneysel İncelenmesi", Yapı Mekaniği Laboratuvarları 5. Toplantısı, Kayseri, 2015.

**E35.** Mezrea, P.E., I.A. Yılmaz, M. Ispir, I.E. Bal, A. Ilki, Tarihi Tuğla Duvarların Tekstil Donatılı Harç ile Güçlendirilmesi, Dördüncü Tarihi Yapıların Güçlendirilmesi ve Geleceğe Güvenle Devredilmesi Sempozyumu, İstanbul, 2013.

**E34.** Demir, C., M. Comert, I. Bedirhanoglu, C. Cosgun, A. Ilki ve N. Kumbasar, "Betonarme Birleşim Bölgelerinin Güçlendirilmesine Yönelik İTÜ Çalışmaları", Prof.Dr. Zekai Celep için Betonarme Yapılar Semineri (2013).

**E33.** Ilki, A., M. Comert, C. Demir, K. Orakcal ve M. Tapan, "Kentsel Dönüşüm Kapsamında Binaların Bölgesel Risk Dağılımının Belirlenmesi: PERA Yöntemi", III. Yapı Denetimi Sempozyumu, Diyarbakır, 2013. **(Çağrılı Konuşma)**.

**E32.** Cosgun, C., M. Comert, C. Demir, ve A. Ilki, "Üç Boyutlu Betonarme Çerçevelerin Düşüm Noktalarının Güçlendirilmesi," Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, 2013.

**E31.** Menlikli, P.E., I.E. Yılmaz, M. Ispir, I.E. Bal, ve A. Ilki, "Tarihi Tuğla Duvarların Güçlendirilmesine Yönelik Deneyler," Ulusal Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, 2013.

**E30.** Ilki, A. Ve Z. Celep, "Betonarme Yapıların Deprem Güvenliği", 1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, 2011. **(Çağrılı Konuşma)**.

**E29.** Kundak S., H. Turkoglu, A. Ilki A., "Afet Risklerinin Azaltılmasında Bireylerin Finansman Desteği Sağlama İsteği: İstanbul Örneği", Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, 11-14 Ekim 2011.

**E28.** Ilki, A., C. Demir ve M. Comert, "Yapısal Güçlendirmede Lifli Polimer Kompozitler", Yedinci Ulusal Deprem Mühendisliği Konferansı, 217-247, İstanbul, 2011. **(Çağrılı Konuşma)**.

**E27.** Inci, P., C. Goksu ve A. Ilki, "Donatı Korozyonunun Betonarme Çerçevelerin Deprem Yükleri Altındaki Davranışına Etkisi", Yedinci Ulusal Deprem Mükendisliği Konferansı, 217-247, İstanbul, 2011.

**E26.** Dalgic, K.D., M. Ispir, A. Gedikli ve A. Ilki, "Düşük Elastisite Modüllü Lifli Polimer ile Sargılanmış Betonun Eksenel Basınç Altındaki Davranışı ve Sonlu Eleman Metodu ile Analizi", Prof.Dr. İlhan Eren ve Prof.Dr. Antonio Trupia için Betonarme Yapılar Semineri (2010), İstanbul, 2010.

**E25.** İlki, A., C. Demir, S. Türkkkan, K. Kolcu ve M. Akbaba, "Lifli Polimer Sargılı Betonun Çevrimli Yerdeğiřtirmeler altında Davranışı", Prof.Dr. Nahit Kumbasar Betonarme Yapılar Semineri (2009), 145-153, İstanbul, 2009.

**E24.** Kumbasar N., A. İlki, "Deprem Yönetmeliđi'ne Göre Lifli Polimer Malzemeler ile Güçlendirme," Betonarme Yapılar Semineri (2008), 77-89, İstanbul, 2008.

**E23.** Bedirhanoglu, I, A. İlki, Y. Candan, M.A. Tasdemir, "Çelik Lif Icerigi, Sıcak Kur ve Lif Korozyonunun Cimento Esaslı Yüksek Performanslı Kompozitlerin Mekanik Davranısına Etkisi," Yedinci Ulusal Beton Kongresi, Beton 2007, 215-223, İstanbul, 2007.

**E22.** Gürbüz, T., E. Seyhan, A.İlki ve N. Kumbasar, "Güçlendirme Çalıřmalarında Kullanılan Kimyasal Ankrajların Eksenel Çekme Altındaki Davranışları", 6. Ulusal Deprem Mühendisliđi Konferansı, Cilt 1, 649-659, İstanbul, 2007.

**E21.** Eraybar, K., A. İlki ve K. Okazaki, "Avcılar İlçesinde Sismik Risk Algılaması", 6. Ulusal Deprem Mühendisliđi Konferansı, Cilt 2, 41-51, İstanbul, 2007.

**E20.** Celik, O.C., A. İlki, C. Yalçın ve E. Yuksel, "Dođu ve Batı Avrupa Kentlerinde Deđişik Tip Binaların Deprem Riskinin Hızlı Deđerlendirilmesi üzerine bir Deneyim", 6. Ulusal Deprem Mühendisliđi Konferansı, Cilt 2, 297-304, İstanbul, 2007.

**E19.** İlki, A., E. Yüksel, C. Demir, A. Tezcan, E. Yılmaz, G. Erol, H. Saruhan ve F. Karadođan, "Dolgu Duvarlı Çerçevelerde Bindirme Boyu Problemi ve Deneysel bir İnceleme", *Tübitak 2. Yapı Mekaniđi Laboratuvarları Toplantısı*, 17-20, Konya, 2003.

**E18.** İlki, A., A. Tezcan, E. Yılmaz, C. Demir, V. Koç ve N. Kumbasar, "Kolon Sarılma Bölgelerinin Yön Deđiřtiren Tekrarlı Eđilme Etkileri Altında İncelenmesi ve CFRP ile Güçlendirilmesi", *2. Yapı Mekaniđi Laboratuvarları Toplantısı*, 11-15, Konya, 2003.

**E17.** İlki, A., H. Bodurođlu, P. Özdemir, F. Baysan, C. Demir ve S. Şirin, "Mevcut ve Güçlendirilmiş Yapılar için Sismik İndeks Yöntemi ve Yapısal Çözümleme Sonuçlarının Karşılaştırılması", *5. Ulusal Deprem Mühendisliđi Konferansı*, CD-ROM, Bildiri No: AT-119, İstanbul, 2003.

**E16.** İlki, A., C. Demir, V. Koç, B. Turgut ve N. Kumbasar, "Mantolanmış Hasarlı Betonarme Elemanların Davranışı", *5. Ulusal Deprem Mühendisliđi Konferansı*, CD-ROM, Bildiri No: AT-058, İstanbul, 2003.

**E15.** Özdemir, P., B. Tařkın, C. Vatansever, A. Sezen, A. İlki, D. Güney, H. Bodurođlu ve S. Tařkın, "Kaynaşlı'daki Bina Türü Yapılarda Düzce Depremi Sonrası Oluşan Hasarın İstatistiksel Deđerlendirmesi", *5. Ulusal Deprem Mühendisliđi Konferansı*, CD-ROM, Bildiri No: AT-120, İstanbul, 2003.

**E14.** İlki, A., "Türkiye'deki Yapılarda Deprem Hasarları ve Deprem Zararlarını Azaltmaya Yönelik İTÜ Deneysel Arařtırmaları", *Kocaeli'99 Acil Durum Yönetimi Konferansı*, CD-ROM, İstanbul, 2003.

**E13.** İlki, A., N. Kumbasar ve B. Boydak, "Kompozitler ile Güçlendirilen Elemanların Eksenel Yükler ve Eđilme Etkileri Altında Davranışı", *Prof.Dr. Kemal Özdeni'i Anma Semineri, Yapıların Onarım ve Güçlendirilmesi Alanında Geliřmeler*, 1137-154, İstanbul, 2002.

**E12.** İlki, A. ve N. Kumbasar, "Karbon Lif Takviyeli Polimer Kompozitlerin Yapı Elemanlarının Onarım ve Güçlendirilmesinde Kullanılması", *Tübitak 1. Yapı Mekaniği Laboratuvarları Toplantısı*, Ankara, 2001.

**E11.** İlki, A. ve N. Kumbasar, "Karbon Lif Takviyeli Polimer Kompozitler ile Güçlendirilen Kare ve Daire Enkesitli Beton Elemanların Davranışı", *16. Teknik Kongre*, Bildiri No. 14, Ankara, 2001.

**E10.** Kaplan, S.A. ve A. İlki, "Güçlendirme Öncesi Yapıyı Askıya Alarak Verilen Ters Yük Miktarının Yeni Elemanlara Transferi", *Mevcut Yapıların Deprem Yüklerine Karşı Güçlendirilmesi ve Çıkmalı Binalardaki Sorunlar Sempozyumu*, 229-234, İstanbul, 2001.

**E9.** Özyurt, N., C. Taşdemir, A. İlki, Ö. Şengül ve M.A. Taşdemir, "Yüksek Dayanımlı Çimento Esaslı Kompozitlerin Mekanik Davranışı", *Ulusal Mekanik Kongresi*, 687-696, Bolu, 1999.

**E8.** İlki, A., K. Darılmaz, E. Yüksel ve F. Karadoğan, "Çanak Temele Yerleştirilen Önyapım Kolonların İki Yönlü Yükler Etkisindeki Davranışları-I", *Tübitak 2. Deprem Sempozyumu*, 97-101, Ankara, 1997.

**E7.** İlki, A., K. Darılmaz, E. Yüksel ve F. Karadoğan, "Güçlendirilmiş Kalıpsız Döşemeler", *Tübitak 2. Deprem Sempozyumu*, 129-133, Ankara, 1997.

**E6.** İlki, A., K. Darılmaz, E. Yüksel, H. Saruhan ve F. Karadoğan, "Kalıpsız Döşeme Elemanlarının Sabit ve Yinelenen Yükler Etkisindeki Davranışı", *Tübitak 2. Deprem Sempozyumu*, 117-121, Ankara, 1997.

**E5.** Yüksel, E., A. İlki ve F. Karadoğan, "Özel Bir Bölme Duvarının Çerçeve Davranışına Etkisi ve Güçlendirme", *Tübitak 2. Deprem Sempozyumu*, 29-33, Ankara, 1997.

**E4.** Karadoğan, F., E. Yüksel, A. İlki, H. Saruhan, K. Darılmaz ve Ö. Güzel, "Çanak Temele Yerleştirilen Önyapım Kolonların Deprem Davranışı-I", *4. Ulusal Deprem Mühendisliği Konferansı*, Ankara, 1997.

**E3.** Karadoğan, F., A. İlki, E. Yüksel ve A. Eröz, "Mevcut Binalara Kat Eklenmesi ve Bir Öneri", *Tübitak 1. Deprem Sempozyumu*, 175-184, Ankara, 1996.

**E2.** Karadoğan, F., E. Yüksel, E. Orakdöğen, A. İlki ve A. Eröz, "Yinelenen Tekil Yükler Etkisinde Bırakılan Öngerilmeli Boşluklu Döşeme Elemanlar-I", *Turgan Sabis Sempozyumu*, 81-92, İstanbul, 1995.

**E1.** Yüksel, E., A. İlki, S. Koyama ve F. Karadoğan, "Küçük Titreşim Ölçümleri ve Yapıların Olası Deprem Davranışları", *3. Ulusal Deprem Mühendisliği Konferansı*, 326-335, İstanbul, 1995.

#### **F. Diğer yayınlar:**

**F13.** Akbas, B., M. Akgun, ..., A. İlki et al., "Seismological and Engineering Effects of the M 7.0 Samos Island (Aegean Sea) Earthquake," *Joint Report, Hellenic Association of Earthquake Engineering, Earthquake Engineering Association of Turkey, Earthquake Foundation of Turkey, Earthquake Engineering Research Institute (USA), Geotechnical Extreme Events Reconnaissance Association*, December 31, 2020. (<https://doi.10.18118/G6H088>).

- F12.** Pul, S., A. İlki ve M. Şentürk, "Prekast Betonarme Yapı Elemanları için Moment Aktaran Cıvatalı Birleşim," *Tübitak, Teknik Rapor*, 1005-117M346, 2018.
- F11.** İlki, A., "Yapısal Riskler ve Risklerin Azaltılması," Kadioglu, M ve Ozdamar, E., eds., 2. baskı, "Afet Yönetiminin Temel İlkeleri" içinde, 43-52, *JICA Türkiye Ofisi Yayınları*, No. 1, Ankara, 2006.
- F10.** İlki, A., V. Koç ve N. Kumbasar, "CFRP İle Güçlendirilen Düşük ve Normal Dayanımlı Beton Elemanlar", *Türkiye Deprem Vakfı, Teknik Rapor*, TDV/01-AP-118, 2004.
- F9.** Kumbasar, N., A. İlki ve C. Demir, "Onarılmış ve Güçlendirilmiş Betonarme Kolonların Davranışı", *Tübitak, Teknik Rapor*, İNTAG-568, 2004.
- F8.** Kumbasar, N., İ. Eren, M. Aydoğan ve A. İlki, (Editörler), "Prof.Dr. Kemal Özden'i Anma Semineri-Yapıların Onarım ve Güçlendirilmesi Alanında Gelişmeler", *İstanbul Teknik Üniversitesi, Bildiriler Kitabı*, 2002.
- F7.** Yentürk, N., A. Ünlü, E. Tarı ve A. İlki, vd. "Türk İtfaiye Teşkilatının Yeniden Yapılandırılması İçin Bir Model Önerisi", *İstanbul Teknik Üniversitesi-Afet Yönetim Merkezi Yayınları*, No. 17, 2002.
- F6.** İlki, A. (Editör), "Acil Durum Yönetim Operasyonları", *İstanbul Teknik Üniversitesi-Afet Yönetim Merkezi Yayınları*, No. 14, Çeviri, 2001.
- F5.** Kumbasar, N. ve A. İlki, "Betonarme Elemanların Tekrarlı Yükler Altında Doğrusal Olmayan Davranışı", *Tübitak, Teknik Rapor*, İNTAG-559, 1999.
- F4.** İlki, A., "Sargılı Beton Gerilme-Şekildeğiştirme Modelleri Üzerine Bir Derleme", *Türkiye Deprem Vakfı, Teknik Rapor*, TDV/TR022/36, 1999.
- F3.** Karadoğan, F. ve A. İlki, "27 Haziran 1998 Adana-Ceyhan Depreminin Ardından Yapısal Hasarın Değerlendirilmesi", *TMMOB, Türkiye Mühendislik Haberleri, Makale*, Yıl:43, Sayı:395, 19-27, 1998.
- F2.** Karadoğan, F. ve A. İlki, "Adana-Ceyhan Depreminin Yapılar Açısından Değerlendirmesi", *Cumhuriyet, Bilim Teknik, Makale*, 25 Temmuz 1998, Sayı:592, 18-19, 1998.
- F1.** Boduroğlu, H., A. İlki ve P. Özdemir, "İstanbul İli Devlet Hastaneleri Envanter Araştırma Projesi", *Türkiye Deprem Vakfı, Teknik Rapor*, No.P100-1, 1994.