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İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ ANTALYA

International Researcher IDs

Publons / Web Of Science ResearcherID: C-2476-2016

Yoksis Researcher ID: 128450



Learning Knowledge

Doctorate 2003 - 2011	Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey
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Undergraduate 1998 - 2002	Akdeniz University, Faculty Of Engineering, Department of Civil Engineering, Turkey
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Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, SEISMIC UPGRADING OF REINFORCED CONCRETE FRAMES WITH STRUCTURAL STEEL ELEMENTS
BETONARME ÇERÇEVELERİN ÇELİK YAPI ELEMANLARI İLE SİSMİK GÜÇLENDİRİLMESİ, Middle East Technical
University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2011

Academic Titles / Tasks

Professor 2022 - Continues	Akdeniz University, Faculty of Engineering, Department of Civil Engineering
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Associate Professor 2016 - 2022	Akdeniz University, Faculty of Engineering, İnşaat Mühendisliği
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Assistant Professor

2013 - 2016

Akdeniz University, Faculty of Engineering, İnşaat Müh. Böl.

Research Assistant

2003 - 2011

Middle East Technical University, Faculty Of Engineering, İnşaat Mühendisliği

Research Assistant

2008 - 2009

University of Minnesota, Department Of Civil Engineering, Department Of Civil Engineering

Supported Projects

- Özçelik R., Erdal F., Erođlu Azak T., TUBITAK Project, Yeni Tasarım Betonarme Yapılarda Burkulması Engellenmiş Çelik Çaprazların Kullanımının Araştırılması, 2021 - 2024
- ÖZÇELİK R., EROĐLU AZAK T., Project Supported by Higher Education Institutions, Güçlendirilmiş Betonarme Çerçevelerde Yapısal Tanımlama Yöntemi ile Yapısal Parametrelerin Tayini, 2016 - 2022
- Özçelik R., Erdal F., Aydođdu İ., TUBITAK Project, Development of External Reinforcement Methods with Buckling Prevented Steel Braces of Reinforced Concrete Structures, 2017 - 2020
- ÖZÇELİK R., AYDOĐDU İ., DİKİCİAĞIK Y., SÖĐÜT H., Project Supported by Higher Education Institutions, BURKULMASI ENGELLENMİŞ ÇELİK ÇAPRAZLARIN ÇERÇEVE BENZERİ SİSTEM İÇERİSİNDE HİSTERETİK DAVRANIŞLARININ BELİRLENMESİ, 2014 - 2019
- ERDAL F., ÖZÇELİK R., TUNCA O. O., Taş S., Project Supported by Higher Education Institutions, OPTİMUM BOYUTLANDIRILMIŞ GÖVDE YÜKSEKLİĐİ ARTTIRILMIŞ ÇELİK KİRİŞLERİN YÜK TAŞIMA KAPASİTELERİNİN KARŞILAŞTIRILMALI ANALİZİ, 2015 - 2016
- Özçelik R., Topkaya C., Binici B., TUBITAK Project, Burkulması Engellenmiş Çelik Çaprazların Geliştirilmesi ve Betonarme Binaların Depreme Karşı Güçlendirilmesinde Kullanımının Araştırılması, 2013 - 2016
- Özçelik R., Project Supported by Higher Education Institutions, Düşük Dayanımlı Betonların Tekrarlanan Eksenel Yükler Altında Performanslarının Belirlenmesi, 2012 - 2014
- Binici B., TUBITAK Project, Betonarme Çerçevelerin Yapısal Çelik Elemanlarla Güçlendirilmesi İçin Tasarım Metotları Geliştirilmesi, 2007 - 2010
- Binici B., TUBITAK Project, Betonarme Yapıların Güçlendirilmesinde Kullanılan Fiberli Polimerler için Alternatif Ankraj Metotları, 2004 - 2006

Scholarships

2211 Yurt İçi Doktora Bursu, TUBITAK, 2006 - 2011

TÜBİTAK 106M493 nolu projede burs, TUBITAK, 2007 - 2010

2214 Yurt Dışı Araştırma Bursu, TUBITAK, 2008 - 2009

TÜBİTAK 104I008 (İÇTAG I-597) nolu projede burs, TUBITAK, 2005 - 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- Effect of geometry on flexural behavior of optimal designed web-expanded beams**
Taş S., ERDAL F., Tunca O., ÖZÇELİK R.
Journal of Constructional Steel Research, vol.215, 2024 (SCI-Expanded)
- External strengthening of RC structures with buckling-restrained braced frames**

- Erdil E. F., Özçelik R., Erdal F.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.16, pp.1-33, 2023 (SCI-Expanded)
3. **Influence of trapezoidal and sinusoidal corrugation on the flexural capacity of optimally designed thin-walled beams**
ERDAL F., Tunca O., Taylan H., ÖZÇELİK R., SÖĞÜT H.
Structural Engineering and Mechanics, vol.84, no.1, pp.63-76, 2022 (SCI-Expanded)
 4. **Experimental and finite element study of optimal designed steel corrugated web beams**
ERDAL F., Tunca O., Tas S., ÖZÇELİK R.
ADVANCES IN STRUCTURAL ENGINEERING, vol.24, no.9, pp.1814-1827, 2021 (SCI-Expanded)
 5. **Experimental investigation and numerical analysis of optimally designed composite beams with corrugated steel webs**
ERDAL F., TUNCA O., ÖZÇELİK R.
STEEL AND COMPOSITE STRUCTURES, vol.37, no.1, pp.1-14, 2020 (SCI-Expanded)
 6. **Design of buckling restrained braces with composite technique**
ÖZÇELİK R., Dikiciasik Y., Civelek K. B., ERDİL E. F., ERDAL F.
STEEL AND COMPOSITE STRUCTURES, vol.35, no.5, pp.687-699, 2020 (SCI-Expanded)
 7. **Pseudodynamic Test of a Deficient RC Frame Strengthened with Buckling Restrained Braces**
ÖZÇELİK R., ERDİL E. F.
EARTHQUAKE SPECTRA, vol.35, no.3, pp.1163-1187, 2019 (SCI-Expanded)
 8. **The development of the buckling restrained braces with new end restrains**
ÖZÇELİK R., Dikiciasik Y., ERDİL E. F.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.138, pp.208-220, 2017 (SCI-Expanded)
 9. **Cyclic testing of low-strength plain concrete**
Ozcelik R.
MAGAZINE OF CONCRETE RESEARCH, vol.67, no.8, pp.379-390, 2015 (SCI-Expanded)
 10. **Seismic retrofit of non-ductile reinforced concrete frames with chevron braces**
ÖZÇELİK R., BİNİCİ B., Akpınar U.
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.166, no.7, pp.326-341, 2013 (SCI-Expanded)
 11. **Pseudo dynamic test of a deficient reinforced concrete frame upgraded with internal steel frames**
ÖZÇELİK R., BİNİCİ B., KURÇ Ö.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.42, no.5, pp.763-778, 2013 (SCI-Expanded)
 12. **Modelling of strengthened hollow brick infills**
BARAN M., Ozcelik R., Sevil T., CANBAY E.
MAGAZINE OF CONCRETE RESEARCH, vol.65, no.4, pp.257-271, 2013 (SCI-Expanded)
 13. **Pseudo Dynamic Testing of an RC Frame Retrofitted with Chevron Braces**
ÖZÇELİK R., BİNİCİ B., KURÇ Ö.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.16, no.4, pp.515-539, 2012 (SCI-Expanded)
 14. **Seismic Retrofit of Deficient RC Structures with Internal Steel Frames**
ÖZÇELİK R., Akpınar U., BİNİCİ B.
ADVANCES IN STRUCTURAL ENGINEERING, vol.14, no.6, pp.1205-1222, 2011 (SCI-Expanded)
 15. **Analysis and design of FRP composites for seismic retrofit of infill walls in reinforced concrete frames**
BINICI B., OZCEBE G., Ozcelik R.
COMPOSITES PART B-ENGINEERING, vol.38, no.5-6, pp.575-583, 2007 (SCI-Expanded)

Articles Published in Other Journals

1. **Analysis of RC Structures Retrofitted with Buckling Restrained Braces**
ÖZÇELİK R., ERDİL E. F.

- International Journal of Civil Engineering and Architecture, vol.3, no.1, pp.34-45, 2017 (Peer-Reviewed Journal)
2. **Nonlinear Time History Analysis of RC Frame Retrofitted with Buckling Restrained Braces**
ÖZÇELİK R., ERDİL E. F.
International Journal of Civil Engineering and Architecture, vol.3, no.1, pp.46-54, 2017 (Peer-Reviewed Journal)
 3. **Burkulması engellenmiş çelik çaprazlar**
Özçelik R.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, no.3, pp.160-170, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

1. **The Design of Trapezoidal Corrugated Web Beams Using Firefly Method**
ERDAL F., Tunca O. O., Dogan E., ÖZÇELİK R.
in: Nature-Inspired Metaheuristic Algorithms for Engineering Optimization Applications, Serdar Carbas Abdurrahim Toktas Deniz Ustun, Editor, Springer, London/Berlin , Singapur, pp.137-152, 2021
2. **Nonlinear Dynamic Analysis of Structural Steel Retrofitted Reinforced Concrete Test Frames**
ÖZÇELİK R., AKPINAR U., BINICI B.
in: Mechanics and Properties of Composed Materials and Structures, Andreas Öchsner, Lucas F. M. da Silva, Holm Altenbach, Editor, Springer-Verlag Berlin Heidelberg, London, pp.71-82, 2012

Refereed Congress / Symposium Publications in Proceedings

1. **Determination of Hysteretic Behavior of Buckling Restrained Brace in Frame System**
SÖĞÜT H., ÖZÇELİK R., ÇAM M.
8th International Steel Structures Symposium, Konya, Turkey, 24 - 26 October 2019, pp.296-304
2. **The Design, Construction and Cyclic Testing of an Externally Retrofitted 3-Dimensional Reinforced Concrete Structure**
ERDİL E. F., Çam M., Şener D., ÖZÇELİK R.
4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Turkey, 17 - 18 June 2019, pp.647-658
3. **The Vibration Tests of a 3-Dimensional Deficient Reinforced Concrete Structure**
Çam M., Şener D., ERDİL E. F., ÖZÇELİK R.
4th Eurasian Conference on Civil and Environmental Engineering, İstanbul, Turkey, 17 - 18 June 2019, pp.628-634
4. **The Effect of Masonry Infill Walls on the Numerical Modeling of Reinforced Concrete Structure**
ERDİL E. F., ÖZÇELİK R.
INTERNATIONAL CONGRESS on ENGINEERING and ARCHITECTURE, Antalya, Turkey, 14 - 16 November 2018, pp.1428-1432
5. **The Cyclic Testing of a 3D Scaled Deficient Reinforced Concrete Structure**
ERDİL E. F., ÖZÇELİK R.
INTERNATIONAL CONGRESS on ENGINEERING and ARCHITECTURE, Antalya, Turkey, 14 - 16 November 2018, pp.1433-1438
6. **The Cyclic Performance Of Buckling Restrained Braced Frame**
SÖĞÜT H., ÖZÇELİK R.
3rd International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.214
7. **The Strength Of Timber Beam Members Consisted Of Varying Parts**
SÖĞÜT H., ÖZÇELİK R., ERDAL F., Alanyalı M.
3rd International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.496
8. **The Numerical Analysis Of Buckling Restrained Braced Members**

SÖĞÜT H., ÖZÇELİK R.

3rd International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 April 2018 - 27 April 2019, vol.2, pp.494

9. **Buckling Restrained Braces with Composite Design**
Özçelik R., Erdil E. F.
3rd International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.638-647
10. **Pseudo Dynamic Test of RC Frame Retrofitted With Buckling Restrained Brace**
ÖZÇELİK R., ERDİL E. F., CİVELEK K. B.
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016, pp.42
11. **Buckling Restrained Braces with New Casing System**
ÖZÇELİK R., DİKİCİAŞIK Y., CİVELEK K. B.
12. International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016, pp.1-10
12. **The Effect of Concrete Models on Dynamic Analysis of Deficient RC Structures**
ERDİL E. F., ÖZÇELİK R.
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016
13. **Yeni Nesil Burkulması Engellenmiş Çelik Çaprazların Histeretik Davranışları**
ÖZÇELİK R., DİKİCİAŞIK Y., CİVELEK K. B.
6. Çelik Yapılar Sempozyumu, Eskişehir, Turkey, 9 - 11 December 2015, pp.329-340
14. **FARKLI BURKULMAYI ENGELLEYEN MEKANİZMAYA SAHİP BURKULMASI ENGELLENMİŞ ÇELİK ÇAPRAZLAR**
Özçelik R., Dikiciaşık Y., Civelek K. B.
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, İzmir, Turkey, 14 - 16 October 2015, pp.238-256
15. **Burkulması Engellenmiş Çelik Çaprazların Uç Stabiliteilerinin Arttırılması**
ÖZÇELİK R., DİKİCİAŞIK Y., CİVELEK K. B.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.558-568
16. **Buckling Restrained Braces with Different Casing Systems**
Özçelik R., Dikiciaşı Y.
International Conference on Civil and Environmental Engineering Conference, Nevşehir, Turkey, 20 - 23 May 2015, pp.1621-1630
17. **The Development Of The Buckling Restrained Braces With New End Restraints.**
DİKİCİAŞIK Y., BINICI B., TOPKAYA C., ÖZÇELİK R.
11. International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 25 October 2014, pp.1-6
18. **Seismic strengthening of RC frames with different retrofitting techniques**
ÖZÇELİK R., BINICI B.
2013 International Van Earthquake Symposium, Van, Turkey, 23 - 27 October 2013, pp.1-11
19. **Seismic Retrofitting of Deficient RC Structures with Internal Steel Frames by Using Pseudo Dynamic Testing Procedure**
ÖZÇELİK R., BINICI B., KURC O.
15. World Conference of Earthquake Engineering, Lisbon, Portugal, 24 - 28 October 2012, pp.1-10
20. **Comparison of seismic retrofit methods for nonductile RC structures by using pseudo dynamic testing procedures**
ÖZÇELİK R., KURT E., BINICI B., KURC O., CANBAY E., ÖZCEBE G.
10th International Congress on Advances in Civil Engineering, Ankara, Turkey, 17 - 19 October 2012, pp.1-11
21. **Yapısal Çelik Elemanlarla Güçlendirilmiş Betonarme Çerçevelerin Dinamik Benzeri Deney Performansı**
ÖZÇELİK R., BINICI B., KURC O.
1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Turkey, 11 - 14 October 2011, pp.1-10
22. **The effect of infill wall on seismic performance of deficient RC structures.**
AKPINAR U., ÖZÇELİK R., BINICI B.
Compdyn 2011 III Ecomas Thematic Conference on Computational Methods in Structural Dynamics and

- Earthquake Engineering, Corfu, Greece, 25 - 28 June 2011, pp.1-10
23. **A Case Study Of Strengthening Of Deficient Rc Building With Internal Steel Frame**
ÖZÇELİK R., BINICI B.
Compdyn 2011 III Ecomas Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Corfu, Greece, 24 - 28 May 2011, pp.1289-1303
24. **Experimental And Analytical Examination Of Deficient Rc Frames Retrofitted With Chevron Braces**
ÖZÇELİK R., AKPINAR U., BINICI B.
14. European Conference of Earthquake Engineering, Ohrid, Macedonia, 30 August - 03 September 2010, pp.1-8
25. **SEISMIC UPGRADING OF DEFICIENT REINFORCED CONCRETE FRAMES WITH INTERNAL STEEL FRAME**
ÖZÇELİK R., BINICI B.
Proceedings of the 9th U.S. National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, 25 - 29 July 2010, pp.1-10
26. **Performance Comparisons of External Strengthening Methods for Deficient RC Frames**
ÖZKÖK E., ÖZÇELİK R., BINICI B.
ATC & SEI 2009 Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, Sanfrancisco, United States Of America, 1 - 04 January 2009, pp.926-936
27. **Use of Internal V Braces for Strengthening Deficient Reinforced Concrete Frames**
ÖZÇELİK R., BINICI B.
8th International Congress on Advances in Civil Engineering, Lefkoşe, Cyprus (Kktc), 15 - 17 September 2008, pp.193-200
28. **APPLICATION OF STEEL RETROFIT SCHEMENS FOR DEFICIENT BUILDINGS IN TURKEY**
ÖZÇELİK R., BINICI B.
First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, 3 - 08 September 2006, pp.1-9

Other Publications

1. **23 EKİM 2011 MW 7.2 VAN DEPREMI SISMİK ve YAPISAL HASARA ILIKIN SAHA GÖZLEMLERİ**
YAKUT A., BINICI B., CANBAY E., OZCEBE G., ÖZÇELİK R.
Technical Report, pp.76, 2012

Academic and Administrative Experience

2016 - Continues	Director of the Center	Akdeniz University, Deprem Araştırmaları Uygulama Ve Araştırma Merkezi
2015 - 2016	Board Member	Akdeniz University, Faculty of Engineering
2013 - 2014	Deputy Head of Department	Akdeniz University, İnşaat Müh. Böl.

Courses

Bilgisayar Destekli Yapı Analizi, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Çelik Yapılar, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013
Depreme Dayanıklı Yapı Tasarım İlkeleri, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 -

2017, 2014 - 2015

İLERİ ÇELİK YAPI TASARIMI, Doctorate, 2016 - 2017

BETONARME YAPILARIN DAVRANIŞI, Postgraduate, 2016 - 2017

Depreme Dayanıklı Yapı Tasarımı, Undergraduate, 2014 - 2015, 2013 - 2014

Yapı Laboratuvarı Uygulamaları , Undergraduate, 2015 - 2016, 2014 - 2015

MÜHENDİSLİKTE BİLGİSAYAR UYGULAMALARI, Undergraduate, 2012 - 2013

YAPILARIN SİSMİK GÜÇLENDİRİLMESİ, Postgraduate, 2013 - 2014

Yapı Statiği II, Undergraduate, 2012 - 2013

Advising Theses

Özçelik R., Betonarme yapıların burkulması engellenmiş çelik çaprazlar ile dış güçlendirme metotlarının geliştirilmesi, Doctorate, E.FİRÜZE(Student), 2023

Özçelik R., Burkulması engellenmiş çelik çaprazlar ile güçlendirilmiş kusurlu betonarme yapıların yapı tanı teknikleriyle incelenmesi, Postgraduate, M.ÇAM(Student), 2021

ÖZÇELİK R., Burkulması Engellenmiş Çelik Çaprazlar İçin Farklı Burkulmayı Engelleme Mekanizmalarının İncelenmesi, Doctorate, K.Burç(Student), 2020

ÖZÇELİK R., Ahşap kiriş elemanlarının deneysel olarak dayanımlarının belirlenmesi, Postgraduate, M.OKKA(Student), 2020

ÖZÇELİK R., Yivli Minare'nin depreme karşı dayanıklılığının araştırılması, Postgraduate, L.Furkan(Student), 2019

Özçelik R., Burkulması engellenmiş çelik çaprazların çerçeve sistem içerisinde histeretik davranışının belirlenmesi, Postgraduate, H.SÖĞÜT(Student), 2019

ÖZÇELİK R., BURKULMASI ENGELLENMİŞ ÇELİK ÇAPRAZLAR İLE GÜÇLENDİRİLMİŞ BETONARME YAPILARIN DİNAMİK ÖZELLİKLERİNİN YAPISAL TANIMLAMA YÖNTEMİ İLE BELİRLENMESİ, Postgraduate, B.YAVAŞ(Student), 2017

ÖZÇELİK R., Burkulması Engellenmiş Çelik Çaprazların Global ve Lokal Stabilitelerinin İncelenmesi, Doctorate, Y.Dikiciaşık(Student), 2017

ÖZÇELİK R., Çelik Yüzeylerin İşlenmesinin Kaynak Kalitesine Etkisinin Araştırılması, Postgraduate, G.Barbaros(Student), 2016

Metrics

Publication: 49

Citation (WoS): 107

Citation (Scopus): 159

H-Index (WoS): 5

H-Index (Scopus): 6

Research Areas

Civil Engineering, Structure, Steel Structures, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Engineering and Technology