

## Prof. YAPRAK ITİR ÖZDEMİR

### Personal Information

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### International Researcher IDs

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### Education Information

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 1993 - 1997

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, FEN BİLİMLERİNDE ARAŞTIRMA PROJESİ HAZIRLAMA, TÜBİTAK, 2014

### Dissertations

Doctorate, DEPREM ETKİSİNDEKİ KALIN PLAKLARIN MİNDLİN TEORİSİ KULLANILARAK PARAMETRİK OLARAK İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Bölümü, 2007

Postgraduate, FARKLI RİJİTLEŞTİRİCİ ELEMANLARA SAHİP DEPREM ETKİSİNDEKİ YAPILARIN LİNEER DAVRANIŞLARININ ZEMİNE DE DİKKATE ALARAK KARŞILAŞTIRMALI OLARAK İNCELENMESİ, Karadeniz Technical University, -, İnşaat Mühendisliği, 2001

### Research Areas

Civil Engineering, Structure, Structural Engineering, Engineering and Technology

### Courses

BETONARME II, Undergraduate, 2016 - 2017

BETONARME I, Undergraduate, 2016 - 2017

İNŞAAT MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2016 - 2017

YAPI SİSTEMLERİNİN SAYISAL ÇÖZÜMÜ, Postgraduate, 2015 - 2016

ÇELİK YAPILAR, Undergraduate, 2015 - 2016

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

- I. **Dynamic behaviour of thick plates resting on Winkler foundation with fourth order element**  
Ozdemir Y.  
EARTHQUAKES AND STRUCTURES, vol.16, no.3, pp.359-368, 2019 (SCI-Expanded)
- II. **Optimization of the braced dome structures by using Jaya algorithm with frequency constraints**  
Grzywinski M., DEDE T., ÖZDEMİR Y. I.  
STEEL AND COMPOSITE STRUCTURES, vol.30, no.1, pp.47-55, 2019 (SCI-Expanded)
- III. **Is it shear locking or mesh refinement problem?**  
ÖZDEMİR Y. I., AYVAZ Y.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.50, no.2, pp.181-199, 2014 (SCI-Expanded)
- IV. **Development of a higher order finite element on a Winkler foundation**  
Ozdemir Y. I.  
FINITE ELEMENTS IN ANALYSIS AND DESIGN, vol.48, no.1, pp.1400-1408, 2012 (SCI-Expanded)
- V. **Materially nonlinear free vibration analysis of reinforced concrete beam**  
DEDE T., Ayvaz Y., ÖZDEMİR Y. I.  
JOURNAL OF VIBRATION AND CONTROL, vol.17, no.7, pp.1090-1098, 2011 (SCI-Expanded)
- VI. **Parametric earthquake analysis of thick plates using Mindlin's theory**  
ÖZDEMİR Y. I., Ayvaz Y.  
SHOCK AND VIBRATION, vol.17, no.6, pp.771-785, 2010 (SCI-Expanded)
- VII. **Shear locking-free earthquake analysis of thick and thin plates using Mindlin's theory**  
ÖZDEMİR Y. I., Ayvaz Y.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.33, no.3, pp.373-385, 2009 (SCI-Expanded)
- VIII. **Earthquake behavior of stiffened RC frame structures with/without subsoil**  
Ozdemir Y. I., Ayvaz Y.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.28, no.5, pp.571-585, 2008 (SCI-Expanded)
- IX. **Shear locking-free analysis of thick plates using Mindlin's theory**  
Ozdemir Y. I., Bekiroğlu S., Ayvaz Y.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.27, no.3, pp.311-331, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **EARTQUAKE BEHAVIOUR OF THICK PLATES RESTING ON ELASTIC FOUNDATION WITH FIRST ORDER FINITE ELEMENT**  
ÖZDEMİR Y. I.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, no.4, pp.935-950, 2018 (ESCI)
- II. **Eartquake Behaviour Of Thick Plates Resting On Elastic Foundation With First Order Finite Element**  
ÖZDEMİR Y. I.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, pp.935-950, 2018 (Peer-Reviewed Journal)
- III. **PARAMETRIC EIGENVALUE ANALYSIS OF MINDLIN PLATES RESTING ON WINKLER FOUNDATION WITH SECOND ORDER FINITE ELEMENT**  
ÖZDEMİR Y. I.  
Sigma Journal Of Engineering and Natural Sciences, vol.36, no.1, pp.191-206, 2018 (ESCI)
- IV. **Eigenvector and eigenvalue analysis of thick plates resting on elastic foundation with first order finite element**  
ÖZDEMİR Y. I.  
CHALLENGE JOURNAL OF STRUCTURAL MECHANICS, vol.4, no.2, pp.61-76, 2018 (Peer-Reviewed Journal)
- V. **PARAMETRIC EIGENVALUE ANALYSIS OF MINDLIN PLATES RESTING ON WINKLER FOUNDATION**

## **WITH SECOND ORDER FINITE ELEMENT**

ÖZDEMİR Y. I.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, no.1, pp.191-206, 2018 (ESCI)

**VI. Earthquake analysis of thick plates resting on elastic foundation with second order finite element**

ÖZDEMİR Y. I.

Journal of Structural Engineering & Applied Mechanics, vol.1, no.2, pp.52-61, 2018 (Peer-Reviewed Journal)

**VII. Forced vibration analysis of Mindlin plates resting on Winkler foundation**

ÖZDEMİR Y. I.

CHALLENGE JOURNAL OF STRUCTURAL MECHANICS, vol.4, no.1, pp.18-26, 2018 (Peer-Reviewed Journal)

**VIII. Eigenvalue Analysis of Mindlin Plates Resting on Elastic Foundation**

ÖZDEMİR Y. I.

Turkish Journal of Electromechanics & Energy, vol.2, no.2, pp.20-25, 2017 (Peer-Reviewed Journal)

**IX. Parametric analysis of thick plates subjected to earthquake excitations**

ÖZDEMİR Y. I., Ayvaz Y., DEDE T.

CHALLENGE JOURNAL OF STRUCTURAL MECHANICS, vol.1, no.1, pp.9-12, 2015 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. The Dynamic Behavior and Response of a Thick Plate at the Kocaeli Earthquake in Turkey**

ÖZDEMİR Y. I., DEDE T.

International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, pp.1288-1298

**II. The Effects of The Aspect Ratio and Thickness/Span Ratio at The Free Vibration Behaviour of Thick Plates on Elastic Foundation with First Order Finite Element**

ÖZDEMİR Y. I.

1. Anadolu Uluslararası Multidisipliner Çalışmalar Kongresi, Diyarbakır, Turkey, 28 - 29 December 2018, pp.181-192

**III. Forced vibration analysis of Mindlin plates resting on Winkler foundation**

ÖZDEMİR Y. I.

1. Anadolu Uluslararası Multidisipliner Çalışmalar Kongresi, Diyarbakır, Turkey, 28 - 29 December 2018, pp.193-204

**IV. Parametric forced vibration analysis of Mindlin plate resting on Winkler foundation with first order finite element**

ÖZDEMİR Y. I.

International Science and Academic Congress'18, İstanbul, Turkey, 8 - 09 December 2018

**V. Parametric Forced Vibration Analysis of Mindlin Plates Resting on Winkler Foundation with Newmark Method**

ÖZDEMİR Y. I.

13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018, pp.52-59

**VI. Free Vibration Parametric Analysis of Thick Plates Resting on Winkler Foundation**

ÖZDEMİR Y. I.

II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1234-1245

**VII. Fourth Order Shear Locking Free Finite Element Forced Vibration Parametric Analysis of Thick Plates Resting on Elastik Foundation**

ÖZDEMİR Y. I.

II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1627

**VIII. Shear Locking-Free Analysis of Mindlin Plates Resting on Elastic Foundation**

ÖZDEMİR Y. I.

Proceedings of the 9th International Congress on Advanced in Civil Engineering, Trabzon, Turkey, 27 - 30 September 2010, pp.1-10

**IX. Parametric Analysis of Thick Plates Subjected to Earthquake Excitations**

ÖZDEMİR Y. I., Ayvaz Y.

Proceedings of the 8th International Congress on Advanced in Civil Engineering, Famagusta, Cyprus (Kktc), 15 - 17 September 2008, pp.99-106

**X. Evaluation of h, p, hp FEM for Elastostatic Plane Problems**

Bekiroğlu S., Ayvaz Y., ÖZDEMİR Y. I.

Proceedings of the 8th International Congress on Advanced in Civil Engineering, Famagusta, Cyprus (Kktc), 15 - 17 September 2008, pp.123-131

**XI. Comparative Study Of Mindlin Plates Using 4- And 8-Noded Finite Elements**

ÖZDEMİR Y. I., Ayvaz Y.

Proceedings of the International Symposium on Advances in Earthquake & Structural Engineering, Isparta, Turkey, 24 - 26 October 2007, pp.245-255

**XII. Dynamic Analysis Of Thick Plates Subjected To Eartquake**

ÖZDEMİR Y. I., Ayvaz Y.

International Eartquake Symposium Kocaeli, Kocaeli, Turkey, 22 - 24 October 2007, pp.348-360

**XIII. Effects of Soil Condition on Behavior of Stiffened Rc Frame Structures Subjected To Earthquakes**

ÖZDEMİR Y. I., Ayvaz Y.

International Eartquake Symposium Kocaeli, Kocaeli, Turkey, 22 - 24 October 2007, pp.302-311

**XIV. Shear Locking-Free Analysis of Thick Plates Subjected To Earthquake Excitations**

ÖZDEMİR Y. I., Ayvaz Y.

International Conference on Civil, Structural and Environmental Engineering Computing, Julians, Malta, 18 - 21 September 2007, pp.212-227

**XV. Analysis of clamped and simply supported thick plates using finite element method**

ÖZDEMİR Y. I., Ayvaz Y.

Proc. of the 6th Int. Cong. on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2004, vol.1, pp.652-661

**XVI. Comparative Study of Frame Structure Including Subsoil with Different Stiffening Members Subjected to Earthquakes**

ÖZDEMİR Y. I., Ayvaz Y.

Proceedings of the 4th International Congress on Advanced in Civil Engineering, İstanbul, Turkey, 25 - 27 September 2002, vol.1, pp.329-338

## Metrics

Publication: 34

Citation (WoS): 44

Citation (Scopus): 41

H-Index (WoS): 3

H-Index (Scopus): 3

## Non Academic Experience

KARADENİZ TEKNİK ÜNİVERSİTESİ

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Ekol İnşaat