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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-6731-2020

ScopusID: 57213505189

Yoksis Researcher ID: 194117

Education

Doctorate 2015 - 2022	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği - Yapı, Turkey
Postgraduate 2012 - 2015	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği - Yapı, Turkey
Undergraduate 2007 - 2012	Yildiz Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Development of Damaged or Non-damaged High Energy Dissipative Moment Connections In Seismic Resistant Steel Frames, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2022

Postgraduate, DBYBHY-2007'DEKİ MOMENT AKTARAN ÇELİK BİRLEŞİMLERİN SONLU ELEMEN ANALİZLERİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği Anabilim Dalı, 2015

Academic Titles / Tasks

Assistant Professor 2023 - Continues	Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department
Research Assistant PhD 2022 - 2023	Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department

Research Assistant
2013 - 2022

Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering
Department

Supported Projects

1. BEKİROĞLU S., AYVAZ Y., ARSLAN G., SEVİM B., YILMAZ O., YILMAZ M. O., FIRAT ALEMDAR Z., ALEMDAR F., Project Supported by Higher Education Institutions, Similasyon Ortamında Geliştirilen Sürtünmeli ve Elastomerli Sismik Birleşim Aparatının Kısmi Prototip Testleri, 2022 - Continues
2. BEKİROĞLU S., ALEMDAR F., ARSLAN G., AYVAZ Y., SEVİM B., YILMAZ O., Project Supported by Higher Education Institutions, Alın Levhalı Bulonlu ve Alın Levhasız Bulonlu Çelik Kolon-Kiriş Birleşimlerinin Deneysel ve Sonlu Elemanlar Analizleri ile Karşılaştırılması, 2015 - 2018

Designed Lessons

Postgraduate

Yılmaz O., Steel Beam-Column Connections, Postgraduate, 2024 - 2025

Undergraduate

Yılmaz O., Steel Beams, Undergraduate, 2024 - 2025

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Biaxial cyclic behavior of bolted end-plate connection to I-column reformed by box-plates**
Yılmaz O., Bekiroğlu S.
Engineering Structures, vol.255, 2022 (SCI-Expanded)
2. **Experimental investigation of bolted stiffened end-plate and bolted flange-plate connections**
Yılmaz O., Bekiroğlu S., Alemdar F., Arslan G., Sevim B., Ayvaz Y.
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.16, no.3, 2019 (SCI-Expanded)
3. **Seismic Performance of Post-Northridge Welded Connections**
Yılmaz O., Bekiroğlu S.
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.15, 2018 (SCI-Expanded)
4. **THE EFFECT OF REINFORCING PANEL ZONE OF BOLTED END PLATE COLUMN BEAM CONNECTIONS**
Yılmaz O., Bekiroğlu S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.2, pp.241-253, 2016 (SCI-Expanded)

Articles Published in Other Journals

1. **A Study on Effect of Sizing Bolt Hole in Single-Lap Connection Using FEA**
Zafer A., YILMAZ O., BEKİROĞLU S.
Journal of Scientific Research and Reports, vol.19, no.1, pp.1-14, 2018 (Peer-Reviewed Journal)
2. **A NOVEL APPROACH FOR STATIC ANALYSIS OF PLANE FRAME SYSTEMS**
YILMAZ O., Sahin A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.2, pp.129-143, 2015 (ESCI)
3. **EDUCATIONAL SOFTWARE DEVELOPMENT FOR DESING OF STEEL STRUCTURES LESSON**

YILMAZ O., Sahin A.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI,
vol.31, no.4, pp.571-581, 2013 (ESCI)

Books

1. Birleşimler

Yılmaz O.

in: Çelik Yapılar: Tasarım ve Davranış, Prof. Dr. İlker Kalkan, Doç. Dr. Fatih Alemdar, Editor, Palme Yayın Dağıtım, Ankara, pp.655-747, 2024

Papers Published in Refereed Scientific Meetings

1. Partial Prototype Tests of a Developed Seismic Connection Apparatus

Yılmaz O., Bekiroğlu S., Alemdar F., Yılmaz M. O., Fırat Alemdar Z., Sevim B., Arslan G., Ayvaz Y.

9. Yapı Mekaniği Laboratuvarları Çalıştayı, Düzce, Turkey, 18 - 19 October 2024, pp.155-160

2. Evaluation of Friction Behaviour in Metal-Metal Contact Surfaces under Cyclic Motions for Seismic Damping

Koyuncu T., Bekiroğlu S., Yılmaz O., Alemdar F., Yılmaz M. O., Fırat Alemdar Z., Sevim B., Arslan G., Ayvaz Y.

XXIV International Scientific Conference VSU'2024, Sofija, Bulgaria, 10 - 12 October 2024, pp.1-10

3. Betonarme Bir Binanın İki Farklı Fiber Plastik Mafsallı Durumu için Performansının İncelenmesi

Kaya N., Yılmaz O.

4. Uluslararası Lisansüstü Çalışmalar Kongresi, İstanbul, Turkey, 5 - 08 June 2024, pp.655-668

4. Cost Comparison of Construction of a Steel Structure with Traditional Methods and Lead Rubber Bearing Isolator System

Bayar B., Yılmaz O.

5. Uluslararası Mühendislik Araştırmaları Sempozyumu, Düzce, Turkey, 7 - 09 March 2024, pp.172-182

5. The frictional and elastomeric seismic joint apparatus and its usage as a steel beam-to-column connection

Yılmaz O., Bekiroğlu S.

Proceedings of 3rd International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.970-979

6. Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması

Doğan U., Yüzer N., Acar U., Akbaba M. F., Akbulut M. T., Akgün C., Akın O., Akkaya H. C., Akpınar B., Aktaş Z., et al.

Türkiye Ulusal Jeodezi Komisyonu (TUJK) XXII. Sempozyumu 2023, Trabzon, Turkey, 29 November - 01 December 2023, pp.5-6

7. Development of a Frictional and Elastomeric Seismic Joint Apparatus for Use in Buildings

Yılmaz O., Bekiroğlu S.

14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021, pp.260-267

8. Suggesting Box-plates for I-column around Weak-axis in the Bolted End-plate Connection

Yılmaz O., Bekiroğlu S.

14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021, pp.1032-1039

9. Thermal Effect on Buckling of Micro Beams Using Modified Couple-Stress Theory

Besseghier A., Yılmaz O.

4th International Conference on Advances in Mechanical Engineering (ICAME2018), İstanbul, Turkey, 19 December 2018, pp.569-573

10. ALIN LEVHALI BULONLU KOLON-KİRİŞ BİRLEŞİMİNİN ÇEVİRİMSEL YÜKLEME ALTINDA DENEYSEL

ÇALIŞMASI

Yılmaz O., Bekiroğlu S., Alemdar F., Arslan G., Sevim B., Ayvaz Y.

4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017

11. **Investigation of Reinforcing Beam-Web on Bolted Unstiffened End-Plate Connections**

Yılmaz O., Bekiroğlu S.

XVII International Scientific Conference VSU'2017, Sofija, Bulgaria, 8 - 09 June 2017, pp.142-149

12. **Performance Evaluation of Weak-Axis Steel Moment Connections**

Yılmaz O., Bekiroğlu S.

Proceedings ?VI International Scientific Conference VSU'2016, Sofija, Bulgaria, 9 - 10 June 2016, pp.352-358

13. **DBYBHY-2007'deki Moment Aktaran Kaynaklı Birleşimlerin Monotonik Yükleme Altındaki Davranışı**

Yılmaz O., Bekiroğlu S.

6. Çelik Yapılar Sempozyumu, Eskişehir, Turkey, 15 - 17 October 2015, pp.117-126

14. **DBYBHY-2007'ye Göre Moment Aktaran Bulonlu Birleşimlerin Sonlu Elemanlar Yöntemi ile Analizi**

Yılmaz O., Bekiroğlu S.

Sekizinci Ulusal Deprem Mühendisliği Konferansı, İstanbul, Turkey, 11 - 15 May 2015, pp.383-394

15. **The Development of Educational Tool for Analysis and Design of Plane Truss Systems**

Yılmaz O., Şahin A.

International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning, İstanbul, Turkey, 01 December 2014

16. **Numerical Simulations of Bolted Steel Connections in Single and Double Shear Under Pretension Effect**

Bekiroğlu S., Yılmaz O.

11th International Congress on Advances in Civil Engineering (ACE 2014), İstanbul, Turkey, 21 - 25 October 2014, pp.1-7

17. **Behaviour of Pretensioned Bolted Steel Column – Beam Connections Subjected to Monotonic Loading**

Yılmaz O., Bekiroğlu S.

11th International Congress on Advances in Civil Engineering (ACE 2014), İstanbul, Turkey, 21 - 25 October 2014, pp.1-8

18. **Çelik Endüstri Yapılarının Tasarımı için Bilgisayar Programı Geliştirilmesi**

Yılmaz O., Şahin A.

5. Çelik Yapılar Sempozyumu, İstanbul, Turkey, 13 - 15 November 2013, pp.141-150

Courses

Doctorate

Sonlu Elemanlar Yöntemi İle Bilgisayar Uygulamaları, Doctorate, 2023 - 2024

Postgraduate

Steel Beam-Column Connections, Postgraduate, 2024 - 2025

Yapı ve Deprem Mühendisliğinde Deneysel Analiz, Postgraduate, 2024 - 2025

Advanced Computer Programming for Structural and Earthquake Engineering, Postgraduate, 2024 - 2025, 2023 - 2024

Undergraduate

Steel Structures 1, Undergraduate, 2024 - 2025, 2023 - 2024

Steel Beams, Undergraduate, 2024 - 2025

Steel Structures 2, Undergraduate, 2023 - 2024, 2022 - 2023

Structural Analysis 3, Undergraduate, 2023 - 2024

Numerical Analysis, Undergraduate, 2022 - 2023

Supervised Theses

Yılmaz O., INVESTIGATION OF THE BEHAVIOR OF A MULTI-STORY STEEL STRUCTURE UNDER DIFFERENT TYPES OF SEISMIC ISOLATION SYSTEMS, Postgraduate, B.Bayar(Student), Continues
Yılmaz O., DEVELOPMENT OF A NEW EARTHQUAKE-RESISTANT STEEL FRAME, Doctorate, A.Uludağ(Student), Continues
Yılmaz O., DEVELOPMENT OF AN INTERACTIVE SOFTWARE FOR STRUCTURAL ANALYSIS OF PLANE FRAME SYSTEMS, Postgraduate, A.Yaşar(Student), Continues
Yılmaz O., PERFORMANCE ANALYSIS FOR DIFFERENT TYPES OF CONNECTIONS IN STEEL STRUCTURES, Postgraduate, E.Arslan(Student), Continues
Yılmaz O., NON-LINEAR FINITE ELEMENT ANALYSIS OF A STRUCTURAL MEMBER, Postgraduate, L.Oğuz(Student), Continues
Yılmaz O., FINITE ELEMENT ANALYSIS OF CASTELLATED BEAMS, Postgraduate, E.Dumlu(Student), Continues
Yılmaz O., PERFORMANCE ANALYSIS AND EVALUATION OF AN EXISTING REINFORCED CONCRETE BUILDING ACCORDING TO TBDY-2018, Postgraduate, N.Kaya(Student), 2024

Patent

Bekiroğlu S., Yılmaz O., BİLHASSA BİNALARDA KULLANILMAK ÜZERE SÜRTÜNME Lİ VE ELASTOMER Lİ SİSMİK BİRLEŞİM APARATI, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2020 18195 , Standard Registration, 2024
Yılmaz O., Bekiroğlu S., BURKULMA LEVHALI DEĞİŞTİRİLEBİLİR KİRİŞ-KOLON BİRLEŞİM APARATI, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Recourse Number: 2022/017103 , Standard Registration, 2022

Peer Reviews in Scientific Publications

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF CIVIL ENGINEERING, Journal Indexed in SCI-E, September 2024
AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, September 2024
AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, June 2024
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF CIVIL ENGINEERING, Journal Indexed in SCI-E, June 2024
Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, July 2022
Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, Journal Indexed in SCI-E, July 2022
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, June 2020
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, April 2020
Computer Applications In Engineering Education, Journal Indexed in SCI-E, November 2017

Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, June 2024

Metrics

Publication: 27
Citation (WoS): 9
Citation (Scopus): 14

H-Index (WoS): 2

H-Index (Scopus): 3

Research Areas

Civil Engineering, Structure, Structural Engineering, Steel Structures, Finite Element Methods, Numerical modeling, Engineering and Technology