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ScopusID: 3091506

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Learning Knowledge

Doctorate
1990 - 1995

Karadeniz Technical University, -, İnşaat Mühendisliği, Turkey

Postgraduate
1986 - 1990

Karadeniz Technical University, -, İnşaat Mühendisliği, Turkey

Undergraduate
1982 - 1986

Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey

Dissertations

Doctorate, Doğu Karadeniz Bölgesi doğal hafif agregalarından biriyle yapılan hafif betonun geleneksel bir betonla karşılaştırmalı olarak incelenmesi , Karadeniz Technical University, Fen Bilimleri Enstitüsü, 1995

Postgraduate, Dikdörtgen kesitli betonarme sıvı depolarının projelendirilmesinde kullanılan çeşitli yöntemlerin karşılaştırılması , Karadeniz Technical University, -, İnşaat Mühendisliği, 1990

Academic Titles / Tasks

Professor
2008 - Continues

Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Associate Professor
2003 - 2008

Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Assistant Professor
1996 - 2003

Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Research Assistant
1989 - 1996

Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Supported Projects

1. HÜSEM M., COŞĞUN S. İ., Project Supported by Higher Education Institutions, İKİ BİLEŞENLİ MODÜLER SİSMİK ENERJİ SÖNÜMLEYİCİ, 2019 - 2020
2. HÜSEM M., COŞĞUN S. İ., Project Supported by Higher Education Institutions, ÜÇ BİLEŞENLİ MODÜLER SİSMİK ENERJİ SÖNÜMLEYİCİ, 2018 - 2020
3. DEMİR S., HÜSEM M., Project Supported by Higher Education Institutions, Bir Sismik Enerji Sönümleyici Çelik Çapraz Komitesi - TASARIM, 2018 - 2020
4. HÜSEM M., BİRİNCİ KAYAALP F., Project Supported by Higher Education Institutions, Kilitli Yığma Duvar Yapılanması - FAYDALI MODEL, 2018 - 2020
5. HÜSEM M., DEMİR S., Project Supported by Higher Education Institutions, SİSMİK ENERJİ SÖNÜMLEYİCİ ÇELİK ÇAPRAZ, 2017 - 2020
6. HÜSEM M., SESLİ H., ATEŞ Ş., Project Supported by Higher Education Institutions, BOŞLUKLU BETONARME PERDE DUVARLAR ARASINDAKİ BAĞ KİRİŞLERİNDE KULLANILABİLECEK GELENEKSEL VE YENİLİKÇİ YAKLAŞIMLARIN DAVRANIŞA ETKİLERİNİN İNCELENMESİ, 2017 - 2019
7. HÜSEM M., DEMİR S., BİRİNCİ KAYAALP F., Project Supported by Higher Education Institutions, Farklı Şekillerde Donatılandırılmış Yığma Yapıların Tekrarlı Yatay Yükler Etkisi Altındaki Davranışları, 2015 - 2016
8. HÜSEM M., PUL S., DEMİR S., TUBITAK Project, Drucker-Prager Akma Kriteri Parametrelerinin Geleneksel Beton İçin Deneysel Olarak Belirlenmesi (1002), 2013 - 2015
9. HÜSEM M., PUL S., TUBITAK Project, Betonarme Perdelerde Bırakılan Bant Tipi Boşlukları Nedeniyle Depremde Oluşan Kısa Kolon Etkisinin İyileştirilmesi, 2012 - 2013
10. HÜSEM M., Project Supported by Higher Education Institutions, Taşıyıcı Hafif Betonla Üretilen Yekpare ve Prefabrikte Yapı Elemanlarının Davranışlarının İncelenmesi, 2011 - 2012
11. HÜSEM M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Karadeniz Bölgesi Hafif Agregalı Yataklarının Belirlenmesi ve Bunların Yekpare ve Prefabrikte Beton yapılarda Kullanılabilirlik ve Yararlarının Araştırılması, 1991 - 1996

Published journal articles indexed by SCI, SSCI, and AHCI

1. **The behavior of reinforced concrete frames exposed to high temperature under cyclic load effect**
Çolakoğlu H. E., HÜSEM M., DEMİR S., AKBULUT Y. E., YILMAZ Y.
Structures, vol.63, 2024 (SCI-Expanded)
2. **Metakaolin-Based and Blast Furnace Slag-Activated Geopolymer Cement with Waste Powders**
Kabirova A., HÜSEM M., Dilbas H., UYSAL M., CANPOLAT O.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.47, no.2, pp.891-907, 2023 (SCI-Expanded)
3. **Physical and mechanical properties of metakaolin-based geopolymer mortars containing various waste powders**
Kabirova A., UYSAL M., HÜSEM M., AYGÖRMEZ Y., Dehghanpour H., PUL S., CANPOLAT O.
EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.27, no.1, pp.437-456, 2023 (SCI-Expanded)
4. **Experimental investigation on new mechanical systems effectiveness to reduce the coupling beam damages**
Sesli H., HÜSEM M., SUNCA F., ALTUNIŞIK A. C., OKUR F. Y.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.1, pp.535-582, 2023 (SCI-Expanded)
5. **Enhancement of in-plane load-bearing capacity of masonry walls by using interlocking units**
Kayaalp F., HÜSEM M.
EARTHQUAKES AND STRUCTURES, vol.22, no.5, pp.475-485, 2022 (SCI-Expanded)
6. **Experimental and numerical investigations on reinforcement arrangements in RC deep beams**
HÜSEM M., YILMAZ M., COŞĞUN S. İ.

ADVANCES IN CONCRETE CONSTRUCTION, vol.13, no.3, pp.243-254, 2022 (SCI-Expanded)

7. **Performance Evaluation of Reinforced Concrete Buildings During the Sivrice-Elazig Earthquake (M_w=6.8, January 24, 2020) in Accordance with Turkish Earthquake Code**
DEMİR S., GÜNAYDIN M., ATMACA B., ALTUNIŞIK A. C., HÜSEM M., ADANUR S., ANGIN Z., ATEŞ Ş.
JOURNAL OF EARTHQUAKE AND TSUNAMI, vol.15, no.04, 2021 (SCI-Expanded)
8. **Seismic damage assessment of masonry buildings in Elazig and Malatya following the 2020 Elazig-Sivrice earthquake, Turkey**
GÜNAYDIN M., ATMACA B., DEMİR S., ALTUNIŞIK A. C., HÜSEM M., ADANUR S., ATEŞ Ş., ANGIN Z.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.19, no.6, pp.2421-2456, 2021 (SCI-Expanded)
9. **Experimental Investigation on Cyclic Behavior of Reinforced Concrete Coupling Beams Under Quasi-static Loading**
Sesli H., HÜSEM M.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.19, no.4, pp.381-400, 2021 (SCI-Expanded)
10. **Numerical and Experimental Investigation on Dynamic Characteristic Changes of Encased Steel Profile Before and After Cyclic Loading Tests**
Nasery M. M., HÜSEM M., OKUR F. Y., ALTUNIŞIK A. C.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.18, no.12, pp.1411-1431, 2020 (SCI-Expanded)
11. **Field Investigation on the Performance of Mosques and Minarets during the Elazig-Sivrice Earthquake**
ATMACA B., DEMİR S., GÜNAYDIN M., ALTUNIŞIK A. C., HÜSEM M., ATEŞ Ş., ADANUR S., ANGIN Z.
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.34, no.6, 2020 (SCI-Expanded)
12. **Model updating-based automated damage detection of concrete-encased composite column-beam connections**
Nasery M. M., HÜSEM M., OKUR F. Y., ALTUNIŞIK A. C., Nasery M. E.
STRUCTURAL CONTROL & HEALTH MONITORING, vol.27, no.10, 2020 (SCI-Expanded)
13. **Sandwich type cold formed tubular braces: design, analysis and cyclic loading test**
DEMİR S., DURMUŞ DEMİR A., HÜSEM M.
Structures, vol.25, pp.35-46, 2020 (SCI-Expanded)
14. **Damage effect on experimental modal parameters of haunch strengthened concrete-encased composite column-beam connections**
Nasery M. M., HÜSEM M., OKUR F. Y., ALTUNIŞIK A. C.
INTERNATIONAL JOURNAL OF DAMAGE MECHANICS, vol.29, no.2, pp.297-334, 2020 (SCI-Expanded)
15. **Performance Evaluation of Gravity Dams Subjected to Near- and Far-Fault Ground Motion Using Euler Approaches**
ALTUNIŞIK A. C., SESLİ H., HÜSEM M., AKKOSE M.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.43, no.2, pp.297-325, 2019 (SCI-Expanded)
16. **Design of interlocking masonry units and mechanical properties of masonry assemblages**
HÜSEM M., BİRİNCİ KAYAALP F.
COMPUTERS AND CONCRETE, vol.23, no.2, pp.97-106, 2019 (SCI-Expanded)
17. **The Effect of Near-Fault Ground Motion with Pulse Signal on Dynamic Response of Dam-Reservoir-Foundation Systems**
ALTUNIŞIK A. C., SESLİ H., HÜSEM M.
GRADEVINAR, vol.---, 2019 (SCI-Expanded)
18. **Cyclic behavior of GFRP strengthened infilled RC frames with low and normal strength concrete**
Arslan M. E., Durmus A., HÜSEM M.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.26, no.1, pp.30-42, 2019 (SCI-Expanded)
19. **Saw type seismic energy dissipaters: development and cyclic loading test**
Demir S., Hüsem M.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.150, pp.264-276, 2018 (SCI-Expanded)
20. **Experimental evaluation of damage effect on dynamic characteristics of concrete encased composite**

column-beam connections

HÜSEM M., NASERY M. M., OKUR F. Y., ALTUNIŞIK A. C.

ENGINEERING FAILURE ANALYSIS, vol.91, pp.129-150, 2018 (SCI-Expanded)

21. **Finite element analysis of RC walls with different geometries under impact loading**
HÜSEM M., Cosgun S. I., Sesli H.
COMPUTERS AND CONCRETE, vol.21, no.5, pp.583-592, 2018 (SCI-Expanded)
22. **Effect of Construction Errors on the Snow-Induced Failure of a Tribune's Columns and Roof**
ALTUNIŞIK A. C., ATEŞ Ş., HÜSEM M.
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.31, no.3, 2017 (SCI-Expanded)
23. **Experimental Determination of Cohesion and Internal Friction Angle on Conventional Concretes**
Pul S., Ghaffari A., Oztekin E., Hüsem M., Demir S.
ACI MATERIALS JOURNAL, vol.114, pp.407-416, 2017 (SCI-Expanded)
24. **Collapse of steel cantilever roof of tribune induced by snow loads**
ALTUNIŞIK A. C., ATEŞ Ş., HÜSEM M., GENÇ A. F.
STEEL AND COMPOSITE STRUCTURES, vol.23, no.3, pp.273-283, 2017 (SCI-Expanded)
25. **Lateral buckling failure of steel cantilever roof of a tribune due to snow loads**
ALTUNIŞIK A. C., ATEŞ Ş., HÜSEM M.
ENGINEERING FAILURE ANALYSIS, vol.72, pp.67-78, 2017 (SCI-Expanded)
26. **Diagonal bracing of steel frames with multi-cable arrangements**
HÜSEM M., DEMİR S., Park H. G., Cosgun S. I.
STRUCTURAL ENGINEERING AND MECHANICS, vol.59, no.6, pp.1121-1137, 2016 (SCI-Expanded)
27. **Behavior of reinforced concrete plates under impact loading: different support conditions and sizes**
HÜSEM M., Cosgun S. I.
COMPUTERS AND CONCRETE, vol.18, no.3, pp.389-404, 2016 (SCI-Expanded)
28. **Experimental determination of Drucker-Prager yield criterion parameters for normal and high strength concretes under triaxial compression**
Oztekin E., PUL S., HÜSEM M.
CONSTRUCTION AND BUILDING MATERIALS, vol.112, pp.725-732, 2016 (SCI-Expanded)
29. **The behaviour of high-strength reinforced concrete columns under low eccentric loading**
HÜSEM M., PUL S., Gorkem S. E., DEMİR S.
EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.20, no.4, pp.486-502, 2016 (SCI-Expanded)
30. **Investigation of bond-slip modeling methods used in FE analysis of RC members**
DEMİR S., HÜSEM M.
STRUCTURAL ENGINEERING AND MECHANICS, vol.56, no.2, pp.275-291, 2015 (SCI-Expanded)
31. **Comparing the dynamic behavior of a hospital-type structure with fixed and isolated base**
NASERY M. M., ERGÜN M., ATEŞ Ş., HÜSEM M.
EARTHQUAKES AND STRUCTURES, vol.9, no.3, pp.657-671, 2015 (SCI-Expanded)
32. **Failure analysis of steel column-RC base connections under lateral cyclic loading**
DEMİR S., HÜSEM M., PUL S.
STRUCTURAL ENGINEERING AND MECHANICS, vol.50, no.4, pp.459-469, 2014 (SCI-Expanded)
33. **An experimental study on different socket base connections under cyclic loading**
PUL S., HÜSEM M., ARSLAN M. E., HAMZACEBI S.
COMPUTERS AND CONCRETE, vol.13, no.3, pp.377-387, 2014 (SCI-Expanded)
34. **Load capacity of high-strength reinforced concrete slabs by yield line theory**
GÖRKEM S. E., HÜSEM M.
COMPUTERS AND CONCRETE, vol.12, no.6, pp.819-829, 2013 (SCI-Expanded)
35. **Ultimate behavior of composite beams with shallow I-sections**
GÖRKEM S. E., HÜSEM M.
STEEL AND COMPOSITE STRUCTURES, vol.14, no.5, pp.493-509, 2013 (SCI-Expanded)
36. **FRACTURE OF CONNECTIONS BETWEEN STEEL AND REINFORCED CONCRETE SHEAR WALLS UNDER**

THE CYCLIC LOADING

HÜSEM M., PUL S., YOZGAT E., GORKEM S. E.

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.36, pp.97-102, 2012 (SCI-Expanded)

37. **A calculation method of cracking moment for the high strength concrete beams under pure torsion**
HÜSEM M., Öztekin E., PUL S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.36, no.1, pp.1-15, 2011 (SCI-Expanded)
38. **Investigation of stress-strain models for confined high strength concrete**
Husem M., Pul S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.32, no.3, pp.243-252, 2007 (SCI-Expanded)
39. **The effects of high temperature on compressive and flexural strengths of ordinary and high-performance concrete**
Husem M.
FIRE SAFETY JOURNAL, vol.41, no.2, pp.155-163, 2006 (SCI-Expanded)
40. **The effects of bond strengths between lightweight and ordinary aggregate-mortar, aggregate-cement paste on the mechanical properties of concrete**
Husem M.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.363, pp.152-158, 2003 (SCI-Expanded)
41. **Determination of rectangular stress block parameters for high performance concrete**
Öztekin E., Pul S., hüsem m.
ENGINEERING STRUCTURES, vol.25, no.3, pp.371-376, 2003 (SCI-Expanded)

Articles Published in Other Journals

1. **Lessons learned from the past earthquakes on building performance in Turkey**
ATMACA B., DEMİR S., GÜNAYDIN M., ALTUNIŞIK A. C., HÜSEM M., ATEŞ Ş., ADANUR S., ANGIN Z.
Journal of Structural Engineering Applied Mechanics, vol.3, no.2, pp.61-84, 2020 (Peer-Reviewed Journal)
2. **A Numerical Study on RC Plates Behavior under Low Velocity Impact**
COŞĞUN S. İ., SESLİ H., HÜSEM M.
International Journal of Structural and Civil Engineering Research, vol.7, no.2, pp.134-137, 2018 (Peer-Reviewed Journal)
3. **Finite Element Model of RC Columns Subjected to Projectile Impact with Different Velocities**
COŞĞUN S. İ., SESLİ H., HÜSEM M.
International Journal of Structural and Civil Engineering Research, vol.7, no.1, 2018 (Peer-Reviewed Journal)
4. **Kat Planındaki Çıkıntıların Burulma Düzensizliği Üzerindeki Etkilerinin İncelenmesi**
Nasary M. M., ERGÜN M., HÜSEM M., ATEŞ Ş.
Mühendislik Bülteni, vol.29, no.81, pp.16-26, 2015 (Peer-Reviewed Journal)
5. **The Experimental Investigation of Crack Mechanism in High Strength Concrete with Steel and Polypropylene Fiber**
HÜSEM M., DEMİR S.
International Journal of Structural Analysis and Design, vol.1, no.3, pp.147-151, 2014 (Peer-Reviewed Journal)
6. **Finite Element Analysis of RC Beams Include BondSlip Effect**
DEMİR S., HÜSEM M.
International Journal of Structural Analysis Design – IJSAD, vol.1, no.3, pp.152-156, 2014 (Non Peer-Reviewed Journal)
7. **THE EFFECT OF FRACTURE AND CRACK GROWTH OF STEEL AND POLYPROPYLENE FIBERS IN THE ORDINARY AND HIGH STRENGTH CONCRETE**
HÜSEM M., DEMİR S.
E-Journal of New World Sciences Academy, vol.8, no.4, pp.182-191, 2013 (Non Peer-Reviewed Journal)

8. **Tarihi Yapılarda Onarım-Güçlendirme Yöntemlerinin Uygulanması ve Etkinliği**
HÜSEM M., DEMİR S.
TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, no.27, pp.44-48, 2013 (Non Peer-Reviewed Journal)
9. **Kentsel dönüşüm ve yapıların yıkım yöntemleri**
HÜSEM M.
TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, no.27, pp.36-43, 2013 (Non Peer-Reviewed Journal)
10. **Çelik ve Polipropilen liflerin geleneksel ve yüksek dayanımlı betonlarda kırılma ve çatlak gelişimine etkisi**
HÜSEM M., DEMİR S.
E-Journal of New World Sciences Academy, no.8, pp.182-191, 2013 (Peer-Reviewed Journal)
11. **Studying the effects of air entrain additive on lightweight perlite concrete**
ZANDI Y., GHANNADI M., HÜSEM M.
Journal of Basic and Applied Scientific Research, no.5, pp.5045-5051, 2012 (Peer-Reviewed Journal)
12. **Yapı Mekaniği laboratuvarının gelişimi**
HÜSEM M., PUL S.
TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, vol.79, pp.4-10, 2012 (Non Peer-Reviewed Journal)
13. **The effect of mineral admixtures on Alkali-Silica Reaction in Concrete**
ZANDI Y., HÜSEM M.
International Journal of Natural and Engineering Sciences, no.6, pp.1-5, 2012 (Scopus)
14. **Comparative Study of Behaviours of Repaired and Strengthened or Strengthened R/C Plates by Using Different Techniques**
ZANDI Y., ÖZTÜRK N., ÖZTÜRK H. T., DURMUŞ DEMİR A., DURMUŞ A., HÜSEM M.
Middle East Journal of Scientific Research, vol.10, no.6, pp.777-784, 2011 (Peer-Reviewed Journal)
15. **Depreme dayanıklı yapı tasarımında kullanılabilen yapı kontrol sistemleri**
Yozgat E., Hüsem M.
TMMOB İnşaat Mühendisleri Odası İzmir Şubesi Haber Bülteni, no.20, pp.22-27, 2005 (Non Peer-Reviewed Journal)
16. **Geleneksel ve yüksek performanslı betonların basınç ve çekme dayanımlarına donma-çözülmenin etkisi**
HÜSEM M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, no.16, pp.503-512, 2003 (Peer-Reviewed Journal)
17. **Eğilme Etkisindeki Yüksek Performanslı Betonarme Kesitlerde Gerilme Bloğu Parametreleri**
PUL S., HÜSEM M., Öztekin E.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.6, no.3, pp.128-134, 2002 (Peer-Reviewed Journal)
18. **Betonarme inşaatlarda beton kürünün kalite kontrol yönünden önemi**
GÖZÜTOK S., HÜSEM M.
TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, no.15, pp.10-13, 2001 (Non Peer-Reviewed Journal)
19. **Taze betonun sertleşmesinde kürün önemi ve kür yöntemleri**
GÖZÜTOK S., HÜSEM M.
TMMOB İnşaat Mühendisleri Odası İzmir Şubesi Haber Bülteni, no.16, pp.19-23, 2001 (Non Peer-Reviewed Journal)
20. **Donma-çözülme olayının geleneksel ve hafif betonların basınç ve çekme dayanımlarına etkisi**
HÜSEM M., Durmuş A.
TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, no.14, pp.14-17, 2000 (Non Peer-Reviewed Journal)
21. **Yerinde beton dayanımının belirlenmesinde uygulanan deneyler**
HÜSEM M., PUL S.

TMMOB İnşaat Mühendisleri Odası Trabzon Şubesi Mühendislik Bülteni, no.14, pp.22-36, 2000 (Non Peer-Reviewed Journal)

22. **İnşaatlarda kalite kontrol ve toplam kalite**

HÜSEM M.

TMMOB İnşaat Mühendisleri Odası İzmir Şubesi Haber Bülteni, no.15, pp.19-21, 2000 (Peer-Reviewed Journal)

23. **Analysis of rectangular reinforced concrete liquid storage tanks by using yield line theory**

HÜSEM M., Durmuş A.

International Journal for Computational Civil and Structural Engineering, no.1, pp.58-62, 2000 (Scopus)

Books & Book Chapters

1. **Birim Şekildeğiştirme Ölçerleri**

Durmuş A., HÜSEM M.

Ktu Basım Mabaası, Trabzon, 2000

Refereed Congress / Symposium Publications in Proceedings

1. **A NEW PASSIVE ENERGY DISSIPATION DEVICE FOR EARTHQUAKE PROTECTION OF STRUCTURES**

DEMİR S., HÜSEM M.

5th International Conference on Earthquake Engineering and Seismology, Ankara, Turkey, 8 - 11 October 2019, vol.-

2. **Düzlem İçi Çevrimsel Yük Altındaki Kilitli Yığma Duvarların Davranışı**

BİRİNCİ KAYAALP F., HÜSEM M.

Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.11-17

3. **Analytical Investigation of The Lateral Load Response of Masonry Walls with Interlocking and Conventional Type Units**

BİRİNCİ KAYAALP F., HÜSEM M.

International Civil Engineering and Architecture Conference, Trabzon, Turkey, 17 - 20 April 2019, vol.1, pp.1273-1282

4. **PREDICTION OF LOAD-DISPLACEMENT ENVELOPE CURVE OF TAPERED SHAPED STEEL ROD WITH THE CIRCULAR CROSS-SECTION BY USING ARTIFICIAL NEURAL NETWORK**

COŞĞUN S. İ., NACAR S., HÜSEM M.

International Civil Engineering and Architecture Conference 2019, Trabzon, Turkey, 17 - 20 April 2019, vol.1, no.1

5. **STRUCTURAL BEHAVIOR OF CONCRETE GRAVITY DAMS USING WESTERGAARD, LAGRANGE AND EULER APPROACHES**

ALTUNIŞIK A. C., SESLİ H., HÜSEM M., kalkan e.

5th International Smposium on Dam Safety, 27 - 31 October 2018

6. **Imaging of Internal Structure of Concrete Constructions by Non Destructive Geophysical Method**

SARIÇİÇEK İ., SESLİ H., GELİŞLİ K., ŞEREN A., HÜSEM M.

EGU General Assembly 2018, Viyana, Austria, 8 - 13 April 2018

7. **Imaging of Internal Structure of Concrete Constructions by Non Destructive Geophysical Methods**

GÖREN S., SARIÇİÇEK İ., SESLİ H., GELİŞLİ K., ŞEREN A., HÜSEM M.

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8. **Metalik Sönümleyicili Çelik Çapraz Sistemi**

DEMİR S., HÜSEM M.

Ulusal Yapı Mekaniği Laboratuvarları 6. Toplantısı, Trabzon, Turkey, 17 - 18 November 2017

9. **Strengthening of Steel Frames with Steel Wire Ropes**

DEMİR S., HÜSEM M., SESLİ H., COŞĞUN S. İ.

4th ICEES-International Earthquake Engineering and Seismology Conference, Eskişehir, Turkey, 11 - 14 October

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10. **Design Stages of Rockfall Protection Systems**
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11. **Earthquake Resistance Performance and Reconstruction Analysis of Historical Kundupoglu Mansion**
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II. International Conference on Advanced Engineering Technologies, 21 - 23 September 2017
12. **Investigation the Seismic Performance of the Structures with Steel Concrete and Composite Columns**
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2nd International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017, pp.334-343
13. **Evaluating effects of Haunch in Concrete Encased Composite Column-Steel Beam Connection Zone under Bending and Lateral Loading**
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14. **Finite Element Analysis of Guardhouses with Different Geometries under Impact Loading**
COŞĞUN S. İ., HÜSEM M., SESLİ H.
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15. **Behaviour of the Composite Column Beam Connection under Cyclic Loading**
NASARY M. M., HÜSEM M.
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16. **Behavior of Reinforced Concrete Coupled Wall Systems and Wall Boundary Elements**
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26. **Plastik Boşluklu Kirişsiz Döşeme Sistemleri İle İlgili Bir Sentez Çalışması**
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27. **Basit Eğilme Etkisi Altındaki Bazı Betonarme Kesitler İçin Dikdörtgen Gerilme Bloğu Parametrelerinin 2007 Deprem Yönetmeliğindeki Kesit Hasar Sınırına Göre Belirlenmesi**
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29. **The Experimental Investigation of Crack Mechanism in High Strength Concrete with Steel and Polypropylene Fiber**
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33. **Soğuk Şekillendirilmiş Hafif Profillerle Üretilen Endüstriyel Çerçeve Sistemlerin Optimizasyonu**
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38. **İnşaat Mühendisliği Eğitiminde Öğrencinin Yeri**
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50. **Water glass solution on concrete mechanical behavior**
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52. **Lightweigh and ordinary concrete-steel bond strength**
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56. **Yüksek Performanslı Betonarme Kolonların Dışmerkez Yükleme Altındaki Davranışı**
PUL S., HÜSEM M.
7. Uluslararası İnşaat Mühendisliğinde Gelişmeler Kongresi (Advances in Civil Engineering-ACE2006), İstanbul, Turkey, 11 - 13 October 2006, vol.1, no.520, pp.1-10
57. **Viskoz sıvı sönümleyicilerin çok katlı çelik yapıların dinamik davranışlarına etkisi**
YOZGAT E., HÜSEM M.
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58. **Experimental behavior of high strength reinforced concrete plates under varying rotation capability supports**
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59. **Betonarme plağın konumuna göre karma kiriş davranışlarının deneysel olarak incelenmesi**
HÜSEM M., Görkem S. E.
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60. **Donma-Çözülme Olayının Yüksek Performanslı Beton Basınç Dayanımına Etkisi**
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HÜSEM M.
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62. **An Investigation on behavior of lightweight concrete subjected to uniaxial compression**
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63. **Trabzon Yöresi Agregalarıyla Üretilen Yüksek Performanslı Betonun Mekanik Özellikleri ve Betonarme Kiriş Davranışları**
PUL S., HÜSEM M., Durmuş A.

- İnşaat Mühendisliğinde Gelişmeler, 4. Uluslararası Kongresi (Advances in CivilEngineering–ACE2000), Gazimagusa, Cyprus (Kktc), 1 - 03 November 2000, vol.1, no.1, pp.97-107
64. **Yüksek Performanslı, Geleneksel ve Hafif Betonların Eğilme Etkisindeki Davranışlarının İncelenmesi**
HÜSEM M., PUL S., Karaca Z.
İnşaat Mühendisliğinde Gelişmeler, 4. Uluslararası Kongresi (Advances in CivilEngineering–ACE2000), Gazimagusa, Cyprus (Kktc), 1 - 03 November 2000, vol.1, no.1, pp.389-397
65. **Some properties of lightweight concretes produced by natural lightweight aggregates**
HÜSEM M., Durmuş A.
Fourth International Conference on Civil Engineering, Tehran, Iran, 4 - 06 May 1997, vol.3, pp.383-392
66. **Analysis of reinforced concrete slabs subjected to triangular distributed loading by the yield line theory**
HÜSEM M., Durmuş A.
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67. **The structural analysis of rectangular water tanks using different methods**
Durmuş A., HÜSEM M.
Proceeding of the Second International Conference in Civil Engineering on Computer Applications, research and Practice, Bahreyn, Bahrain, 8 - 11 April 1996, vol.1, pp.241-251
68. **Comparing the behaviour of lightweight and ordinary reinforced concrete beams in bending**
HÜSEM M., Durmuş A.
Proceeding of the Second International Conference in Civil Engineering on Computer Applications, research and Practice, Bahreyn, Bahrain, 8 - 11 April 1996, vol.1, pp.231-240

Academic and Administrative Experience

2023 - Continues	Head of Department	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2018 - 2021	Education and Curriculum Board Member	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2016 - 2020	University Executive Board Member	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2016 - 2020	Member of the Senate	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2016 - 2020	Dean	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2014 - 2016	Head of Department	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
1999 - 2010	Internship Coordinator	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2003 - 2009	Laboratuvar Yöneticiliği	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
1999 - 2004	Deputy Head of Department	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Courses

Betonarme-I, Undergraduate, 2023 - 2024
Plastik Mafsall Çizgileri Teorisi, Postgraduate, 2022 - 2023
Depreme Dayanıklı Yapı Tasarımı, Undergraduate, 2023 - 2024
Prefabrikte Yapılar, Postgraduate, 2022 - 2023
Öngörilmeli Beton, Postgraduate, 2023 - 2024
Betonarme-II, Undergraduate, 2023 - 2024

Patent

Eğrisel Şekilli Akma Levhalı Metalik Sönümleyici, Utility Model, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 009181 , Standard Registration, 2024
Hüsem M., Coşğun S. İ., Üç bileşenli modüler sismik enerji sönümleyici, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2018 20466 , Standard Registration, 2021
Birinci Kayaalp F., Hüsem M., Kilitli Yığma Duvar Yapılanması, Utility Model, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2018 09986 , Standard Registration, 2020
Demir S., HÜSEM M., Sismik Enerji Sönümleyici Çelik Çapraz, Utility Model, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2017/22584 , Standard Registration, 2020
Birinci Kayaalp F., Hüsem M., Kilitli Duvar Eleman Yapılanması, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2016 14324 , Standard Registration, 2018

Activities in Scientific Journals

Ordu Üniversitesi Bilim ve Teknoloji Dergisi, Advisory Committee Member, 2012 - Continues
Mühendislik Bülteni , Advisory Committee Member, 2010 - Continues

Metrics

Publication: 135
Citation (WoS): 506
Citation (Scopus): 595
H-Index (WoS): 12
H-Index (Scopus): 12

Congress and Symposium Activities

Ulusal Yapı Mekaniği Laboratuvarları 5. Toplantısı, Session Moderator, Adana, Turkey, 2015
2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Session Moderator, Hatay, Turkey, 2013
Beton Bayramı, Panelists, Samsun, Turkey, 2012
4 th International Conference on Seismic Retrofitting, Invited Speaker, Tabriz, Iran, 2012
7th International Congress on Advanced in Civil Engineering, Session Moderator, İstanbul, Turkey, 2006

Research Areas

Civil Engineering, Structure, Prefabrication, Steel Structures, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Building materials, Materials in Civil

Engineering, Engineering and Technology

Non Academic Experience

Karayolları 10. Bölge Müdürlüğü

Other Public Institution, Karayolları Genel Müdürlüğü

Karayolları Genel Müdürlüğü