

Asst. Prof. Didem OKTAY

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği, Turkey 2011 - 2017

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey 2009 - 2011

Undergraduate, Gazi Üniversitesi, Mühendislik Mimarlık Fakültesi, İnşaat Mühendisliği, Turkey 2004 - 2008

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, MARE.14 "Materials and Techniques for the Restoration of Monuments", Aristotle University of Thessaloniki, 2014

Dissertations

Doctorate, Tarihi Kireç Harçlarına Uygun Enjeksiyon Malzemelerinin Üretilmesi ve Model Duvarlarda Uygulanmasının Değerlendirilmesi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği, 2017

Postgraduate, Naylon Lif Donatılı Çimento Esaslı Kompozitlerin Mekanik Davranışı, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2011

Research Areas

Civil Engineering, Building materials, Materials in Civil Engineering, Concrete Technology, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty of Construction, Civil Engineering Department, 2019 - Continues

Research Assistant, Yıldız Technical University, Faculty Of Construction, Civil Engineering Department, 2010 - 2019

Courses

İleri Beton Teknolojisi, Undergraduate, 2017 - 2018, 2018 - 2019

Material Science and Engineering, Undergraduate, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Effect of temperature, resting time and brick dust (Horasan) on the rheological properties of hydraulic lime-based grouts**
DİNÇ ŞENGÖNÜL B., OKTAY D., YÜZER N.
Construction And Building Materials, vol.265, pp.120644, 2020 (Journal Indexed in SCI)
- II. **Numerical Modeling of Traditional Masonry Walls Strengthened with Grout Injection**
DORAN B., YÜZER N., AKTAN S., OKTAY D., ULUKAYA S.
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.14, no.10, pp.1517-1532, 2020 (Journal Indexed in SCI)
- III. **Characterization of the grout produced from argillaceous limestone for the consolidation of historic buildings**
OKTAY D., UĞURYOL M. F. , GÜNER M. B. , HAZAR A. B. , YÜZER N.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.35, no.3, pp.1387-1397, 2020 (Journal Indexed in SCI)
- IV. **Performance Evaluation Of The Lime-Based Grout Used For Consolidation Of Brick Masonry Walls**
Gökyiğit Arpacı E. Y. , OKTAY D., YÜZER N., Ulukaya S., EKŞİ AKBULUT D.
JOURNAL OF MATERIALS IN CIVIL ENGINEERING-ASCE, vol.31, no.6, pp.1-12, 2019 (Journal Indexed in SCI Expanded)
- V. **The effect of mortar type and joint thickness on mechanical properties of conventional masonry walls**
Zengin B., Toydemir B., Ulukaya S., Oktay D., Yüzer N., Koçak A.
STRUCTURAL ENGINEERING AND MECHANICS, vol.67, pp.579-585, 2018 (Journal Indexed in SCI)
- VI. **Material Characterization of Byzantine Period Brick Masonry Walls Revealed in Istanbul (Turkey)**
ULUKAYA S., YORUC A. B. , YÜZER N., OKTAY D.
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.61, no.2, pp.209-215, 2017 (Journal Indexed in SCI)
- VII. **In-Plane Shear Behavior of Traditional Masonry Walls**
DORAN B., KÖKSAL H. O. , AKTAN S., ULUKAYA S., OKTAY D., YÜZER N.
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.11, no.2, pp.278-291, 2017 (Journal Indexed in SCI)
- VIII. **Comparative Experimental Study of Mortars Incorporating Pumice Powder or Fly Ash**
KIZILKANAT A. B. , Oktay D., Kabay N., Tufekci M.
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.28, no.2, 2016 (Journal Indexed in SCI)
- IX. **Properties of concrete with pumice powder and fly ash as cement replacement materials**
KABAY N., Tufekci M. M. , KIZILKANAT A. B. , Oktay D.
CONSTRUCTION AND BUILDING MATERIALS, vol.85, pp.1-8, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The Evolution of Grouting and Hydraulic Lime-Based Grout Used in the Restoration of Historical Masonry Buildings**
Ekşi Akbulut D., Gokyigit Arpacı E. Y. , Oktay D., Yüzer N.
MEGARON, vol.13, no.1, pp.156-168, 2018 (Journal Indexed in ESCI)
- II. **Properties of Cement Mortars Reinforced with Polypropylene Fibers**
Oktay D., Aktürk B., Kabay N.
Sigma Journal of Engineering and Natural Sciences, vol.32, no.2, pp.164-175, 2014 (National Refreed University Journal)

Books & Book Chapters

- I. **Tarihi Yapılarda Enjeksiyon**
YÜZER N., OKTAY D.
Yıldız Teknik Üniversitesi Basım Yayın Merkezi, İstanbul, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Fresh and Hardened State Properties of Lime-Based Grouts Produced from Waste Volcanic Tuff of Cappadocia Region**
Dinç Şengönül B., Bayram M., Oktay D., Yüzer N.
14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021, pp.59-65
- II. **Influence of Temperature on Rheological Properties of Grout Produced from Waste Volcanic Tuff of Cappadocia Region**
Bayram M., Oktay D., Yüzer N.
International Conference on "Cement – Based Materials Tailored for a Sustainable Future", İstanbul, Turkey, 27 - 28 May 2021, pp.258-264
- III. **Characterization and Durability Assessment of Lime-Based Grouts**
Oktay D., Yüzer N.
International Conference on "Cement – Based Materials Tailored for a Sustainable Future", İstanbul, Turkey, 27 - 28 May 2021, pp.236-241
- IV. **Investigation Of Mechanical Properties Of Two-Wyhte Stone Masonry Walls Consolidated With Grout**
Şengönül C., Yüzer N., Dinç Şengönül B., Oktay D., Ulukaya S.
INTERNATIONAL AEGEAN SYMPOSIUMS ON INNOVATION TECHNOLOGIES & ENGINEERING-II, İzmir, Turkey, 18 - 19 September 2020, pp.53-54
- V. **MİNERAL ve KİMYASAL KATKININ ÇİMENTO HAMURU REOLOJİSİ ve DAYANIM GELİŞİMİNE ETKİSİ**
Oktay D., Aktürk B., Kızılkant A. B. , Kabay N., Özkan H., Özkan Ç.
10th International Concrete Congress, Bursa, Turkey, 02 May 2019, pp.495-503
- VI. **Time-Dependent Rheological Behaviour of Lime-Based Grouts**
DİNÇ B., YÜZER N., OKTAY D.
International Civil Engineering and Architecture Conference (ICEARC'19), Trabzon, Türkiye, 17 - 20 April 2019
- VII. **Effect of Temperature on Rheological Properties of Lime-Based Grouts**
DİNÇ B., YÜZER N., OKTAY D.
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 September 2018, pp.1-7
- VIII. **Hidrolik Kireç Esaslı Enjeksiyon Malzemesinin Tasarımı ve Enjekte Edilebilirliğinin Araştırılması**
OKTAY D., YÜZER N.
Uluslararası Katılımlı 6. Tarihi Yapıların Korunması ve Güçlendirilmesi Sempozyumu, Trabzon, Turkey, 02 November 2017, pp.257-265
- IX. **Determination of Mechanical of Properties of Blend Bricks Used in Historical Structures**
Zengin B., Toydemir B., Ulukaya S., Oktay D., Yüzer N., Koçak A.
3rd International Conference on Protection of Historical Constructions-Prohitech 17, Lisbon, Portugal, 12 July 2017, vol.1, pp.184-185
- X. **INVESTIGATION OF MASONRY WALLS ON A COMPRESSIBLE SOIL BY MODEL TESTS (In Turkish)**
Berilgen M. M. , Coşandal A., Ulukaya S., Oktay D., Berilgen S. A. , Yüzer N.
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi (ZM-16), Erzurum, Turkey, 13 - 14 October 2016, vol.2, pp.595-604
- XI. **Experimental Study on the Mechanical Properties of Lime-Based Mortars Produced for Consolidation**
OKTAY D., YÜZER N.

HMC 2016-4th Historic Mortars Conference, Santorini, Greece, 10 October 2016, pp.307-314

- XII. **Investigation of Masonry Walls On A Compressible Soil By Model Tests (In Turkish)**
Berilgen M. M. , Coşandal A., Ulukaya S., Oktay D., Yüzer N., Berilgen S. A.
16. Ulusal Zemin Mekaniği ve Geoteknik Mühendisliği Kongresi, Erzurum, Turkey, 13 - 14 October 2016, pp.595-604
- XIII. **Rheological Properties of Lime Based Grouts Utilized for Masonry Consolidation**
OKTAY D., YÜZER N.
ACE 2016, 12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 September 2016, pp.137
- XIV. **Constitutive Modeling of Unreinforced Masonry Walls**
Aktan S., Doran B., Köksal H. O. , Yüzer N., Ulukaya S., Oktay D., Akbaş B.
ACM 2015-International Conference on Advances in Applied and Computational Mechanics, İzmir, Turkey, 5 - 07 August 2015, pp.10-16
- XV. **Rheological properties of hydraulic grouts used in consolidation of brick masonry walls**
OKTAY D., YÜZER N., Ulukaya S.
REHAB 2015, 2nd International Conference on Preservation, Maintenance and Rehabilitation of Historical Buildings and Structures, Porto, Portugal, 22 July 2015, pp.861-868
- XVI. **Mechanical behavior of two-wythebrick masonry walls injected with hydraulic lime grout**
YÜZER N., Oktay D., Ulukaya S., Gökyiğit-Arpacı E. Y.
REHAB 2015 - 2nd International Conference on Preservation, Maintenance and Rehabilitation of Historical Buildings and Structures, 01 July 2015, pp.879-888
- XVII. **Developments in High Performance Fiber Reinforced Cementitious Composites**
OKTAY D., Taşdemir M. A.
International Congress on Advances in Civil Engineering, ACE2014, İstanbul, Turkey, 21 October 2014, pp.1-6
- XVIII. **Tarihi Yapıların Onarımında Kullanılan Enjeksiyon Yönteminin (Grouting) Değerlendirilmesi**
OKTAY D., YÜZER N.
4. Tarihi Yapıların Güçlendirilmesi ve Geleceğe Güvenle Devredilmesi Sempozyumu, İstanbul, Turkey, 27 November 2013, pp.377-386
- XIX. **Naylon Lif Donatılı Betonların Mekanik Davranışı**
OKTAY D., Taşdemir M. A. , Kop E., Yalçın M.
Beton 2011, 01 October 2011, pp.120-129

Supported Projects

MANAV DEMİR N., OKTAY D., CİVELEK YÖRÜKLÜ H., KOŞMA E. B. , Project Supported by Higher Education Institutions, Atıklardan enerji üretimi esnasında açığa çıkan CO₂'nin gideriminde MICP prosesinin değerlendirilmesi ile CaCO₃ üretimi ve yapı malzemesi olarak kullanımı, 2021 - Continues

YÜZER N., OKTAY D., Bayram M., Project Supported by Higher Education Institutions, Kapadokya Bölgesi Atık Volkanik Tüfünden Üretilmiş Enjeksiyon Malzemesinin Reolojik Özellikleri, 2021 - 2021

Yüzer N., Özata Ş., Ulukaya S., Oktay D., Selçuk M. E. , Ündül Ö., Berilgen M. M. , Tuncer Ö. F. , TUBITAK Project, Investigation of the Usability of Cappadocia Volcanic Tuff in Historical Masonry Buildings by Activating with Alkalis, 2018 - 2021

UĞURYOL M. F. , YÜZER N., DORAN B., TUBITAK Project, Enjeksiyon Yöntemi (Grouting) İle Onarılmış Tarihi Tuğla Duvarların Yük Altında Davranışının İncelenmesi, 2014 - 2017

Yüzer N., Oktay D., Project Supported by Higher Education Institutions, INVESTIGATION OF THE PERFORMANCE OF HISTORICAL BRICK WALLS THAT IS RESTORED WITH GROUTING, 2014 - 2017

Yüzer N., Doran B., Coşandal A., Hazar A. B. , Berilgen M. M. , Büyükpınar Ç., TUBITAK Project, Determination of Original Brick Wall Material Properties of Historical Buildings and Investigation of Behavior Under Load Using Model ExperimentsT, 2012 - 2015

Patent

Yüzer N., Hazar A. B. , Uğuryol M. F. , Oktay D., PRODUCTION METHOD OF READY MIXED GROUT COMPRISING NANO HYDRAULIC LIME, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2017 22327 , Initial Registration, 2021

Memberships / Tasks in Scientific Organizations

RILEM-Technical Committee 277-LHS, Member, 2020 - Continues, France

Scientific Refereeing

Construction and Building Materials, SCI Journal, February 2016

Citations

Total Citations (WOS):60

h-index (WOS):3

Awards

OKTAY D., Birincilik Ödülü-Mechanical behavior of two-wythe brick masonry walls injected with hydraulic lime grout, REHAB 2015, 2nd International Conference on Preservation, Maintenance and Rehabilitation of Historical Buildings and Structures, July 2016