

## Prof. Ayşe Nil Türkeri

### Personal Information

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### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık Anabilim Dalı, Turkey 1992 - 2001

Postgraduate, Istanbul Technical University, Mimarlık, Mimarlık, Turkey 1990 - 1992

Undergraduate, Istanbul Technical University, Mimarlık, Mimarlık, Turkey 1982 - 1987

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Bina Toprak Altı Dış Kabuk Sistemlerinde Yer Alan Bitümlü Örtülerin Su Geçirimsizlik Performanslarının Belirlenmesi İçin Bir Yöntem, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, 2001

### Research Areas

Architecture, Building Information, Structural elements, Building materials, Engineering and Technology

### Academic Titles / Tasks

Professor, Istanbul Technical University, Mimarlık, Mimarlık, 2012 - Continues

Associate Professor, Istanbul Technical University, Mimarlık, Mimarlık, 2006 - 2012

Assistant Professor, Istanbul Technical University, Mimarlık, Mimarlık, 2004 - 2006

Research Assistant PhD, Istanbul Technical University, Mimarlık, Mimarlık, 2001 - 2004

Research Assistant, Istanbul Technical University, Mimarlık, Mimarlık, 1991 - 2001

### Academic and Administrative Experience

Head of Department, Istanbul Technical University, Mimarlık, Mimarlık, 2021 - 2022

Rector's Advisor, Istanbul Technical University, Mimarlık, Mimarlık, 2008 - 2012

### Courses

Cephe Sistemlerinde Su Geçirimsizlik, Postgraduate, 2020 - 2021  
Building Performance Test Methods, Doctorate, 2020 - 2021  
Construction Project, Undergraduate, 2020 - 2021  
Yapı Elemanı Tasarımı, Undergraduate, 2019 - 2020  
Building Construction in Architecture, Undergraduate, 2020 - 2021

## Advising Theses

Türkeri A. N. , Ilımlı-nemli iklim koşullarında keçe esashı bitkilendirilmiş cephe sistemlerinin ısı performansının değerlendirilmesi, Doctorate, E.ÖZER(Student), 2019  
Türkeri A. N. , Knaack U., A holistic decision support tool for facade design, Doctorate, S.KÜLTÜR(Student), 2019

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

- I. **THERMAL PERFORMANCE OF FELT TYPE VEGETATED FACADE SYSTEMS IN A TEMPERATE CLIMATE DURING HEATING AND COOLING PERIODS**  
Yüksel E. Ö. , Türkeri A. N.  
Journal of Green Building, vol.16, no.4, pp.199-225, 2021 (Journal Indexed in SCI Expanded)
- II. **Assessment of long term solar reflectance performance of roof coverings measured in laboratory and in field**  
Kultur S., Turkeri N.  
BUILDING AND ENVIRONMENT, vol.48, pp.164-172, 2012 (Journal Indexed in SCI)
- III. **Proposed method for calculating water penetration test parameters of wall assemblies as applied to Istanbul, Turkey**  
Sahal N., LACASSE M. A.  
BUILDING AND ENVIRONMENT, vol.43, no.7, pp.1250-1260, 2008 (Journal Indexed in SCI)
- IV. **Proposed approach for defining climate regions for Turkey based on annual driving rain index and heating degree-days for building envelope design**  
Sahal N.  
BUILDING AND ENVIRONMENT, vol.41, no.4, pp.520-526, 2006 (Journal Indexed in SCI)
- V. **Water entry function of a hardboard siding-clad wood stud wall**  
Sahal N., LACASSE M.  
BUILDING AND ENVIRONMENT, vol.40, no.11, pp.1479-1491, 2005 (Journal Indexed in SCI)
- VI. **Proposed performance-based laboratory test method for measuring vapour and water permeability of waterproofing membranes under hydrostatic pressure**  
Sahal N., OZKAN E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.18, no.9, pp.701-713, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **A Holistic Decision Support Tool for Facade Design**  
Kultur S., Türkeri A. N. , Knaack U.  
BUILDINGS, vol.9, no.8, 2019 (Journal Indexed in ESCI)
- II. **A literature review of experimental setups monitoring thermal performance of vegetated facade systems**  
Yuksel E., Türkeri A. N.  
Journal of Facade Design and Engineering, vol.5, no.2, pp.67-85, 2017 (Refereed Journals of Other Institutions)
- III. **Durability of external thermal insulation composite systems in Istanbul Turkey İstanbul'da**

### **uygulanan dış cephe ısı yalıtım sisteminin dayanıklılığının değerlendirilmesi**

Edis E., Türkeri N.

A/Z ITU Journal of the Faculty of Architecture, vol.9, no.1, pp.134-138, 2012 (Refereed Journals of Other Institutions)

- IV. **Durability of external thermal insulation composite systems in Istanbul Turkey**  
TÜRKERİ A. N., EDİS F. E.  
A/Z ITU Journal of the Faculty of Architecture, vol.9, no.1, pp.134-138, 2012 (Refereed Journals of Other Institutions)
- V. **Durability of external thermal insulation composite systems in Istanbul**  
EDİS F. E., TÜRKERİ A. N.  
AZ Journal, 2012 (Refereed Journals of Other Institutions)
- VI. **Proposed Model for Design of Photovoltaic Mounted Steep Roof Systems and Case Study: Istanbul, Turkey**  
MUTLU A., Türkeri A. N.  
Smart Innovation, Systems and Technologies, vol.7, pp.289-298, 2011 (Refereed Journals of Other Institutions)
- VII. **İTÜ'de Mevcut Mekanlara Yeni Dokunuşlar**  
Dursun Çebi P., Türkeri A. N.  
YAPI, vol.10, pp.46-47, 2011 (Other Refereed National Journals)
- VIII. **İstanbul'da Mevcut Çatı Sistemi ile Bitkilendirilmiş Çatı Sistemi Isıl Performanslarının Karşılaştırılmalı Değerlendirilmesi**  
Türkeri A. N. , Altun M. C. , Göçer C.  
e-Megaron, vol.6, no.1, pp.21-29, 2011 (National Refereed University Journal)
- IX. **Comparative Assessment of Thermal Performance of Existing Roof System and Retrofitted Green Roof System in Istanbul, Turkey**  
Türkeri A. N. , Altun M. C. , Göçer C.  
MEGARON, vol.6, no.1, pp.21-29, 2011 (Journal Indexed in ESCI)

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

- I. **Development of a Performance Approach for Holistic Facade Design**  
KÜLTÜR S., TÜRKERİ A. N.  
PowerSkin 2019 Conference, Munich, Germany, 16 January 2019
- II. **A Holistic Decision Support Tool for Facade Design**  
KÜLTÜR S., TÜRKERİ A. N.  
7th International Building Physics Conference, 24 September 2018
- III. **Ilımlı-Nemli İklim Bölgesinde Keçe Tip Bitkilendirilmiş Cephe Sistemi Isıl Performansının Değerlendirilmesi**  
YÜKSEL E., TÜRKERİ A. N.  
9. Ulusal Çatı Cephe Konferansı, İstanbul, Turkey, 12 - 13 April 2018
- IV. **Performance Check Tool for Facade Design**  
KÜLTÜR S., KNAACK U., TÜRKERİ A. N.  
ICBEST Istanbul, İstanbul, Turkey, 15 - 18 May 2017
- V. **Proposed Experimental Setup to Monitor the Thermal Performance of Vegetated Facade System in Kocaeli, Turkey**  
YÜKSEL E., TÜRKERİ A. N.  
International Conference on Building Envelope Systems and Technologies, İstanbul, Turkey, 15 - 18 May 2017, pp.282-298
- VI. **Thermal Performance Evaluation of an Extensive Green Roof in Temperate-Humid Climate**  
Türkeri A. N. , Altun M. C. , Göçer C.  
11th International Detail Design in Architecture Conference, Kaohsiung, Taiwan, 21 - 22 October 2013, pp.65-72

- VII. **Analysis of Thermal Performance of an Extensive Green Roof in Istanbul, Turkey**  
Türkeri A. N. , Altun M. C. , Göçer C.  
XXXVIIIth IAHS World Congress on Housing Science, İstanbul, Turkey, 16 - 19 April 2012
- VIII. **Proposed Model for Design of Photovoltaic Mounted Steep Roof Systems and Case Study: Istanbul, Turkey**  
Mutlu A., Turkeri A. N.  
2nd International Conference on Sustainability in Energy and Buildings (SEB 2010), Brighton, United Kingdom, 6 - 07 May 2010, vol.7, pp.289-291
- IX. **Construction of a Retrofit Green Roof System – A Case Study in Istanbul, Turkey**  
ALTUN M. C. , GÖÇER C., TÜRKERİ A. N.  
World Green Roof Congress, Londrina, Brazil, 15 - 16 September 2010
- X. **Life cycle assessment of waterproofing materials manufactured in Turkey**  
Kaya U., Turkeri N.  
9th International Healthy Buildings Conference and Exhibition, HB 2009, Syracuse, NY, United States Of America, 13 - 17 September 2009
- XI. **Performance of strained bituminous waterproofing membranes under hydrostatic pressure**  
Sahal N., Ozkan E.  
8th International Conference on Durability of Building Materials and Components (8dbmc), Vancouver, Canada, 30 May - 03 June 1999, pp.1156-1165
- XII. **Cost efficiency and financial feasibility of retrofitting with heat insulation of existing residential buildings in Istanbul.**  
SAHAL A. N. , ÖZKAN E.  
CIB World Building Congress, 12 June 1998
- XIII. **The simulations of the thermal performance of retrofitted existing residential buildings in Istanbul with Micro Doe-2.1E Computer Programme**  
ÖZKAN E., SAHAL A. N. , ÜNLÜ G. A.  
Fifth International IBPSA Conference, 03 September 1997

## Supported Projects

Türkeri A. N. , Project Supported by Higher Education Institutions, Ilıman Nemli iklim bölgesinde bitkilendirilmiş çatı sisteminin ısı performansının değerlendirilmesi, 2013 - 2018

Türkeri A. N. , Project Supported by Higher Education Institutions, BİTKİLENDİRİLMİŞ ÇATI SİSTEMİ ISIL PERFORMANSININ DEĞERLENDİRİLMİŞİ, 2010 - 2018

Türkeri A. N. , Project Supported by Higher Education Institutions, İSTANBUL İÇİN YEREL KOŞULLARA UYGUN BİTKİLENDİRİLMİŞ ÇATI TEKNOLOJİSİ, 2009 - 2015

Türkeri A. N. , TUBITAK Project, Çevreyle uyumlu bitkilendirilmiş çatı sistemi, 2009 - 2013

Türkeri A. N. , Project Supported by Higher Education Institutions, Çatı Kaplama Malzemesinin Uzun Dönem Işınım Yansıtma Performansının Değerlendirilmesi, 2009 - 2012

Türkeri A. N. , Lacasse M., Other Supported Projects, Assessment of water penetration and water entry rates into wall cladding, 2002 - 2003

Türkeri A. N. , Özkan E., Project Supported by Higher Education Institutions, Bina toprakaltı sistemlerinde yer alan bitümlü örtülerin su geçirimsizlik performanslarının belirlenmesi için bir yöntem, 1994 - 2001

Türkeri A. N. , Özkan E., TUBITAK Project, Mevcut konutların rehabilitasyonunda yapı dış kabuğunun enerji etkin yenilenecek geliştirilmesi, 1994 - 1997

## Citations

Total Citations (WOS):91

h-index (WOS):5