

## **Prof.Dr. Hatice Sözer**

### **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

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Yoksis Araştırmacı ID: 179183

### **Eğitim Bilgileri**

Doktora, Illinois Institute of Technology, Amerika Birleşik Devletleri 1997 - 2002

Yüksek Lisans, University of Colorado at Denver, Amerika Birleşik Devletleri 1995 - 1997

Lisans, İstanbul Teknik Üniversitesi, Mimarlık Fakültesi, Mimarlık Bölümü, Türkiye 1987 - 1992

### **Yabancı Diller**

İngilizce

### **Yaptığı Tezler**

Doktora, Identification of barriers to the Building Integrated Photovoltaic Design Process as Applied to Curtain Wall, Illinois Institute Of Technology, 2002

Yüksek Lisans, Evaluation of Ski Resorts Case study for Erciyes Mountain in Turkey & Design of four sessions resort hotel project, University Of Colorado At Denver, 1997

### **Araştırma Alanları**

Teknik Bilimler, Çevre Mühendisliği, Çevre Teknolojisi, Çevresel Modelleme, Mimarlık, Bina Bilgisi, Bina Tasarımı

### **Akademik Unvanlar / Görevler**

Prof.Dr., İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi, 2021 - Devam Ediyor

Doç.Dr., İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi, 2012 - 2021

Yrd.Doç.Dr., İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi, 2011 - 2012

### **Verdiği Dersler**

Pasif Güneş Enerjisi Sistemleri, Yüksek Lisans, 2020 - 2021

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. Comparing energy profiles of different building types by determining their sensitivities  
Zafaranchi M., Sözer H.  
Architectural Engineering and Design Management, 2023 (SCI-Expanded)
- II. Waste capacity and its environmental impact of a residential district during its life cycle  
Sözer H., Sozen H.  
ENERGY REPORTS, cilt.6, ss.286-296, 2020 (SCI-Expanded)
- III. An evaluation process for natural ventilation using a scenario-based multi-criteria and multi-interaction analysis  
Utkucu D., Sözer H.  
ENERGY REPORTS, cilt.6, ss.644-661, 2020 (SCI-Expanded)
- IV. Calibrating the building energy model with the short term monitored data A case study of a large-scale residential building  
Tuysuz F., Sözer H.  
ENERGY AND BUILDINGS, cilt.224, 2020 (SCI-Expanded)
- V. Interoperability and data exchange within BIM platform to evaluate building energy performance and indoor comfort  
Utkucu D., Sözer H.  
AUTOMATION IN CONSTRUCTION, cilt.116, 2020 (SCI-Expanded)
- VI. Dynamic evaluation method to increase the effect of the automation system on the building energy performance  
Sözer H., Tuysuz F.  
JOURNAL OF CLEANER PRODUCTION, cilt.253, 2020 (SCI-Expanded)
- VII. Energy saving, global warming and waste recovery potential of retrofitting process for a district  
Sözer H., Sozen H.  
JOURNAL OF CLEANER PRODUCTION, cilt.238, 2019 (SCI-Expanded)
- VIII. Predicting the indoor thermal data for heating season based on short-term measurements to calibrate the simulation set-points  
Sözer H., Aldin S. S.  
ENERGY AND BUILDINGS, cilt.202, 2019 (SCI-Expanded)
- IX. Evaluation of innovative sustainable design techniques from traditional architecture: a case study for the cold dry climatic region in Turkey  
Sözer H., Bekele S.  
ARCHITECTURAL SCIENCE REVIEW, cilt.61, sa.3, ss.143-155, 2018 (AHCI)
- X. Applying traditional architectural rules for energy efficiency and lateral structural stiffness to an 80 story tower  
Sozer H., Clark R. J., Elnimeiri M.  
ENERGY, cilt.36, sa.8, ss.4761-4768, 2011 (SCI-Expanded)
- XI. Improving energy efficiency through the design of the building envelope  
Sozer H.  
BUILDING AND ENVIRONMENT, cilt.45, sa.12, ss.2581-2593, 2010 (SCI-Expanded)
- XII. Qualitative and Quantitative Evaluation of Energy Conversation Measures (ECM) Over Baseline as Given by ASHRAE  
Sözer H., Elnimeiri M.  
Architectural Science and Review, cilt.49, sa.2, ss.127-132, 2005 (SSCI)

## **Düger Dergilerde Yayınlanan Makaleler**

- I. Building Performance Optimization throughout the Design-Decission Process with a Holistic Approach

- Utkucu D., Sözer H.  
 Journal of Architectural Engineering, cilt.29, sa.1, 2023 (ESCI)
- II. Effectiveness of interventions to convert the energy consumption of an educational building to zero energy**  
 Zaferanchi M., Sözer H.  
 INTERNATIONAL JOURNAL OF BUILDING PATHOLOGY AND ADAPTATION, 2022 (ESCI)
- III. Calculation of the Sensitivity Factors within the Defined Indexes in a Building Level**  
 Sözer H., Takmaz D.  
 JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY WATER AND ENVIRONMENT SYSTEMS-JSDEWES, cilt.8, sa.1, ss.1-21, 2020 (ESCI)
- IV. Waste Potential of a Building Through Gate-to-Grave Approach Based on Life Cycle Assessment (LCA)**  
 SÖZER H., Sözen H., Utkucu D.  
 International Journal of Sustainable Development and Planning, cilt.15, sa.2, ss.165-171, 2020 (Scopus)
- V. INVESTIGATION of a TRADITIONAL HOUSE based on its ENERGY CONSERVATION**  
 Utkucu D., SÖZER H.  
 Journal of Building Energy Environment : BEE, cilt.3, sa.3, 2019 (Hakemli Dergi)
- VI. Energy Efficiency for Hot-Humid Climate Based On Openings and Roof Type, Adana Case**  
 YÜKSEL Ç. Y., SÖZER H.  
 International Multilingual Journal of Science and Technology (IMJST), cilt.4, sa.4, 2019 (Hakemli Dergi)
- VII. Evaluation of Sustainable Design Strategies Based on Defined Indexes at a District Level**  
 Sözer H., Kükrer E.  
 JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY WATER AND ENVIRONMENT SYSTEMS-JSDEWES, cilt.6, sa.4, ss.609-630, 2018 (ESCI)
- VIII. Evaluating the effects of increasing of building height on land surface temperature**  
 Rad R., Rafieian M., Sözer H.  
 International Journal of Urban Management and Energy Sustainability (IJUMES), cilt.1, sa.1, ss.11-16, 2017 (Hakemli Dergi)
- IX. Critical Factors in Reducing the Cost of Building Integrated Photovoltaic BIPV Systems**  
 SÖZER H., Elnimeiri M.  
 Architectural Science Review, cilt.50, sa.2, ss.115-121, 2007 (Scopus)
- X. Critical Factors on Reducing the Cost of Building Integrated Photovoltaic (BIPV) Systems**  
 Sözer H., Elnimeiri M.  
 Architectural Science and Review, cilt.50, sa.2, ss.115-121, 2007 (Scopus)

## Desteklenen Projeler

- Sözer H., Kirant H. T., Yükseköğretim Kurumları Destekli Proje, Geleneksel Rus Şömine Isıtma Sisteminin Günümüz Mimarısında Isı Akış Modellemesi, 2017 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, SUSTAINABLE CİTİES, 2015 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, SMART CİTİES, 2015 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, INVESTİGATİNG THE İMPORTANCE OF MEASUREMENT & VERİFİCATION (M&V) STUDY FOR MAXİNİZİNG ENERGY SAVING İN EXİSTİNG BUILDİNGS, 2015 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, Effect Of High-Rise Developments On A Microclimate, 2015 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, Enrgy Efficient Building Design, 2013 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, Effect of High-Rise Developments on a Microclimate, 2012 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, IDENTİFİCATION OF BARBIERS TO BUILDİNG INTEGRATED RENAWABLE SYSTEMS INTO THE TALL BUIL DİNG DESİGN İN TURKEY, 2011 - 2018
- Sözer H., Yükseköğretim Kurumları Destekli Proje, Enerji Enstitüsü Binasının Yeşil Bina Kriterelrine Göre Mimari iyileştirme Çalışması, 2011 - 2018

## Metrikler

Yayın: 47

Atıf (WoS): 144

Atıf (Scopus): 242

H-İndeks (WoS): 4

H-İndeks (Scopus): 6