

## Assoc. Prof. Hatice Sözer

### Personal Information

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### Education Information

Doctorate, Illinois Institute Of Technology, United States Of America 1997 - 2002

Postgraduate, University Of Colorado At Denver, United States Of America 1995 - 1997

Undergraduate, İstanbul Teknik Üniversitesi, Mimarlık Fakültesi, Mimarlık Bölümü, Turkey 1987 - 1992

### Foreign Languages

English

### Dissertations

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

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

### Research Areas

Technical Sciences, Environmental Engineering, Environmental Technology, Environmental Modeling, Architecture, Building Information, Building Design

### Academic Titles / Tasks

Professor, Istanbul Technical University, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi, 2021 - Continues

Associate Professor, Istanbul Technical University, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2012 - 2021

Assistant Professor, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2011 - 2012

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

- I. **Waste capacity and its environmental impact of a residential district during its life cycle**  
Sözer H., Sozen H.  
ENERGY REPORTS, vol.6, pp.286-296, 2020 (Journal Indexed in SCI)
- II. **An evaluation process for natural ventilation using a scenario-based multi-criteria and multi-**

### **interaction analysis**

Utkucu D., Sözer H.

ENERGY REPORTS, vol.6, pp.644-661, 2020 (Journal Indexed in SCI)

- III. **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, vol.224, 2020 (Journal Indexed in SCI)
- IV. **Interoperability and data exchange within BIM platform to evaluate building energy performance and indoor comfort**  
Utkucu D., Sözer H.  
AUTOMATION IN CONSTRUCTION, vol.116, 2020 (Journal Indexed in SCI)
- V. **Dynamic evaluation method to increase the effect of the automation system on the building energy performance**  
Sözer H., Tuysuz F.  
JOURNAL OF CLEANER PRODUCTION, vol.253, 2020 (Journal Indexed in SCI)
- VI. **Energy saving, global warming and waste recovery potential of retrofitting process for a district**  
Sözer H., Sozen H.  
JOURNAL OF CLEANER PRODUCTION, vol.238, 2019 (Journal Indexed in SCI)
- VII. **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, vol.202, 2019 (Journal Indexed in SCI)
- VIII. **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, vol.61, no.3, pp.143-155, 2018 (Journal Indexed in AHCI)
- IX. **Applying traditional architectural rules for energy efficiency and lateral structural stiffness to an 80 story tower**  
Sozer H., Clark R. J., Elnimeiri M.  
ENERGY, vol.36, no.8, pp.4761-4768, 2011 (Journal Indexed in SCI)
- X. **Improving energy efficiency through the design of the building envelope**  
Sozer H.  
BUILDING AND ENVIRONMENT, vol.45, no.12, pp.2581-2593, 2010 (Journal Indexed in SCI)

### **Articles Published in Other Journals**

- I. **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, vol.15, no.2, pp.165-171, 2020 (Refereed Journals of Other Institutions)
- II. **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, vol.8, no.1, pp.1-21, 2020 (Journal Indexed in ESCI)
- III. **INVESTIGATION of a TRADITIONAL HOUSE based on its ENERGY CONSERVATION**  
Utkucu D., SÖZER H.  
Journal of Building Energy Environment : BEE, vol.3, no.3, 2019 (Refereed Journals of Other Institutions)
- IV. **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), vol.4, no.4, 2019 (Refereed Journals of Other Institutions)

- V. **Evaluation of Sustainable Design Strategies Based on Defined Indexes at a District Level**  
Sözer H., Kükürer E.  
JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY WATER AND ENVIRONMENT SYSTEMS-JSDEWES, vol.6, no.4, pp.609-630, 2018 (Journal Indexed in ESCI)
- VI. **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), vol.1, no.1, pp.11-16, 2017 (Refereed Journals of Other Institutions)
- VII. **Critical Factors in Reducing the Cost of Building Integrated Photovoltaic BIPV Systems**  
SÖZER H., Elnimeiri M.  
Architectural Science Review, vol.50, no.2, pp.115-121, 2007 (Refereed Journals of Other Institutions)
- VIII. **Critical Factors on Reducing the Cost of Building Integrated Photovoltaic (BIPV) Systems**  
Sözer H., Elnimeiri M.  
Architectural Science and Review, vol.50, no.2, pp.115-121, 2007 (Refereed Journals of Other Institutions)
- IX. **Qualitative and Quantitative Evaluation of Energy Conversation Measures (ECM) Over Baseline as Given by ASHRAE**  
Sözer H., Elnimeiri M.  
Architectural Science and Review, vol.49, no.2, pp.127-132, 2005 (Refereed Journals of Other Institutions)

## Supported Projects

- Sözer H., Kirant H. T. , Project Supported by Higher Education Institutions, Geleneksel Rus Şöminesi Isıtma Sisteminin Günümüz Mimarisinde Isı Akış Modellemesi, 2017 - 2018
- Sözer H., Project Supported by Higher Education Institutions, SUSTAINABLE CITIES, 2015 - 2018
- Sözer H., Project Supported by Higher Education Institutions, SMART CITIES, 2015 - 2018
- Sözer H., Project Supported by Higher Education Institutions, INVESTIGATING THE IMPORTANCE OF MEASUREMENT & VERIFICATION (M&V) STUDY FOR MAXIMIZING ENERGY SAVING IN EXISTING BUILDINGS, 2015 - 2018
- Sözer H., Project Supported by Higher Education Institutions, Effect Of High-Rise Developments On A Microclimate, 2015 - 2018
- Sözer H., Project Supported by Higher Education Institutions, Enrgy Efficient Building Design, 2013 - 2018
- Sözer H., Project Supported by Higher Education Institutions, Effect of High-Rise Developments on a Microclimate, 2012 - 2018
- Sözer H., Project Supported by Higher Education Institutions, IDENTIFICATION OF BARRIERS TO BUILDING INTEGRATED RENAWABLE SYTEMS INTO THE TALL BUİL DİNG DESİGN İN TURKEY, 2011 - 2018
- Sözer H., Project Supported by Higher Education Institutions, Enerji Enstitüsü Binasının Yeşil Bina Kriterelerine Göre Mimari iyileştirme Çalışması, 2011 - 2018
- Sözer H., Project Supported by Higher Education Institutions, RESESRCH STRATEGİES İN TALL BÜİLDİNGS, 2010 - 2018

## Citations

Total Citations (WOS):119

h-index (WOS):3