

Asst. Prof. Suzi Dilara MANGAN

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, Turkey 2007 - 2015

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, Turkey 2004 - 2006

Undergraduate, Yildiz Technical University, Faculty Of Architecture, Department Of Architecture, Turkey 1998 - 2004

Dissertations

Doctorate, An approach for the evaluation of the residential buildings' performances in terms of life cycle energy and cost efficiency, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, 2015

Postgraduate, Evaluation of intelligent building subsystems: Istanbul case, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, 2006

Research Areas

Architecture, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Architecture, Department Of Architecture, 2021 - Continues

Lecturer PhD, Istanbul Bilgi University, Faculty Of Architecture, Department Of Architecture, 2020 - 2021

Assistant Professor, Kocaeli University, Mimarlık Ve Tasarım Fakültesi, Mimarlık, 2018 - 2018

Assistant Professor, Istanbul Aydin University, Faculty Of Architecture And Design, Department Of Architecture, 2015 - 2018

Academic and Administrative Experience

Vice Dean, Istanbul Aydin University, Faculty Of Architecture And Design, 2016 - 2018

Deputy Head of Department, Istanbul Aydin University, Faculty Of Architecture And Design, Department Of Architecture, 2016 - 2018

Courses

Architectural Design I, Undergraduate, 2020 - 2021

Advising Theses

Mangan S. D. , Sustainability assessment principles of heating systems in buildings, Postgraduate, A.Berre(Student), Continues

Jury Memberships

Post Graduate, Post Graduate, Middle East Technical University, September, 2021

Post Graduate, Post Graduate, Yıldız Technical University, June, 2021

Post Graduate, Post Graduate, İstanbul Aydın Üniversitesi, July, 2018

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2018

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2018

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2018

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2018

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, September, 2017

Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2017

Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2017

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2016

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

- I. **Development of a web-based decision support tool for sustainable residential building design and retrofit**
Mangan S. D.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.36, no.4, pp.1785-1800, 2021
(Journal Indexed in SCI Expanded)
- II. **The impact of urban form on building energy and cost efficiency in temperate-humid zones**
Mangan S. D. , Koçlar Oral G., Erdemir Kocagil İ., Sozen I.
JOURNAL OF BUILDING ENGINEERING, vol.33, 2021 (Journal Indexed in SCI)
- III. **Evaluation of settlement textures in terms of building energy, economic performance, and outdoor thermal comfort**
Mangan S. D. , Oral G. K. , Sozen I., Erdemir Kocagil İ.
SUSTAINABLE CITIES AND SOCIETY, vol.56, 2020 (Journal Indexed in SCI)
- IV. **Assessment of residential building performances for the different climate zones of Turkey in terms of life cycle energy and cost efficiency**
Mangan S. D. , Koçlar Oral G.
ENERGY AND BUILDINGS, vol.110, pp.362-376, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Impacts of future weather data on the energy performance of buildings in the context of urban geometry**
Mangan S. D. , Koçlar Oral G.
COGENT ENGINEERING, vol.7, no.1, 2020 (Journal Indexed in ESCI)
- II. **Life cycle assessment of energy retrofit strategies for an existing residential building in Turkey**
Mangan S. D. , Koçlar Oral G.
A/Z : ITU journal of Faculty of Architecture, vol.13, no.2, pp.143-156, 2016 (International Refereed University Journal)
- III. **Energy, economic and environmental analyses of photovoltaic systems in the energy renovation of residential buildings in Turkey**

- Mangan S. D. , Koçlar Oral G.
A/Z : ITU journal of Faculty of Architecture, vol.13, no.2, pp.5-22, 2016 (International Refereed University Journal)
- IV. **Energy and Cost Analyses of Solar Photovoltaic (PV) Microgeneration Systems for Different Climate Zones of Turkey**
Mangan S. D. , Koçlar Oral G.
Energy and Power Engineering, vol.8, no.3, pp.117-129, 2016 (Refereed Journals of Other Institutions)
- V. **Evaluation of the Impact of Photovoltaic Systems on Energy and Economic Performances of a Residential Building**
Mangan S. D. , Koçlar Oral G.
International Journal of Engineering Science and Innovative Technology (IJESIT), vol.4, no.6, pp.100-107, 2015 (Refereed Journals of Other Institutions)
- VI. **A Study on the Evaluation of Heating and Cooling Energy Efficiency in Residential Buildings for Climatic Zones of Turkey**
Mangan S. D. , Koçlar Oral G.
Journal of Energy and Power Engineering, vol.8, no.12, pp.2045-2052, 2014 (Refereed Journals of Other Institutions)
- VII. **A Study on Determining the Optimal Energy Retrofit Strategies for an Existing Residential Building in Turkey**
Mangan S. D. , Koçlar Oral G.
AZ ITU Journal of the Faculty of Architecture, vol.11, no.2, pp.307-333, 2014 (International Refereed University Journal)

Books & Book Chapters

- I. **A study of the impact of climate change on the energy consumption of buildings for heating and cooling**
Mangan S. D.
in: İklim Değişikliği ve Kentler Yapısal Çevre ve Yeşil Alanlar, YILDIZ AKSOY, Editor, DAKAM Yayınevi, İstanbul, pp.366-384, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Impact of urban textures on residential building performances in terms of energy and cost efficiency**
Mangan S. D. , Koçlar Oral G., Erdemir Kocagil İ.
CLIMA 2019- REHVA 13th HVAC World Congress, Bucuresti, Romania, 26 - 29 May 2019, vol.111, no.6025, pp.1-5
- II. **The effect of urban textures on buildings' solar gains and energy performances in the context of climate change**
Mangan S. D. , Koçlar Oral G.
SOLARTR2018, İstanbul, Turkey, 29 - 30 November 2018, pp.176-181
- III. **Effect of urban texture on building energy performance**
Mangan S. D. , Koçlar Oral G., Erdemir Kocagil İ.
7th International Building Physics Conference, IBPC 2018, New York, United States Of America, 23 - 26 September 2018, pp.577-582
- IV. **Evaluation of the impact of settlement textures on building energy performance within the framework of climate change**
Mangan S. D. , Koçlar Oral G.
3. Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 10 - 11 May 2018, pp.33-40
- V. **Evaluating the performance of building envelope in terms of life cycle energy and cost efficiency**
Mangan S. D. , Koçlar Oral G.

International Conference on Building Envelope Systems and Technologies, ICBEST Istanbul 2017, İstanbul, Turkey, 15 - 18 May 2017, pp.660-671

- VI. **Evaluation of the PV systems in energy renovation of residential buildings in Turkey**
Mangan S. D. , Koçlar Oral G.
2. Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 4 - 06 May 2016, vol.1, pp.263-272
- VII. **Assessment of energy performance of a residential building in terms of life cycle energy consumption and CO2 emission**
Mangan S. D. , Koçlar Oral G.
12. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 8 - 11 April 2015, vol.2, pp.1453-1468
- VIII. **A Study on Life Cycle Assessment of Energy Retrofit Strategies for Residential Buildings in Turkey**
Mangan S. D. , Koçlar Oral G.
6th International Building Physics Conference (IBPC), Torino, Italy, 14 - 17 June 2015, vol.78, pp.842-847
- IX. **Calculation of energy performance indicators of PV systems in a residential building case**
Mangan S. D. , Koçlar Oral G.
1. Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 13 - 14 March 2014, vol.1, pp.251-258
- X. **A study on the evaluation of heating and cooling energy efficiency in residential buildings for climatic zones of Turkey**
Mangan S. D. , Koçlar Oral G.
11th REHVA World Congress & 8th International Conference on IAQVEC, CLIMA 2013, Praha, Czech Republic, 16 - 19 June 2013, pp.1-11
- XI. **Evaluation of energy performance in residential buildings in the context of sustainability**
Mangan S. D. , Koçlar Oral G.
8th International Symposium on Architect Sinan, Edirne, Turkey, 25 - 26 April 2013, pp.279-284
- XII. **Energy-efficient improving of a residential building in different climate zones of Turkey**
Mangan S. D. , Koçlar Oral G.
11. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 17 - 20 April 2013, vol.1, pp.37-46

Supported Projects

Mangan S. D. , Koçlar Oral G., Manioğlu G., Erdemir Kocagil İ., Project Supported by Higher Education Institutions, Sustainable, Energy and Cost-Efficient Housing and Settlement Design Guide, 2016 - 2019

Mangan S. D. , Koçlar Oral G., Project Supported by Higher Education Institutions, An approach for the evaluation of the residential buildings' performances in terms of life cycle energy and cost efficiency, 2013 - 2015

Memberships / Tasks in Scientific Organizations

Turkish Society of HVAC and Sanitary Engineers, Member, 2019 - Continues, Turkey

International Association of Building Physics , Member, 2018 - Continues, Italy

Building Physics Association, Member, 2018 - Continues, Turkey

TMMOB Chamber of Architects-Istanbul, Member, 2004 - Continues, Turkey

Scientific Refereeing

ICONARP International Journal of Architecture and Planning, Journal Indexed in ESCI, September 2021

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, Journal Indexed in SCI-E, August 2021

ENERGY STRATEGY REVIEWS, Journal Indexed in SCI-E, July 2021

Energy And Buildings, Journal Indexed in SCI-E, June 2021

ICONARP International Journal of Architecture and Planning , Journal Indexed in ESCI, April 2021

Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, February 2021
Ege Mimarlık, Other Journals, May 2020
Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, January 2020
Ege Mimarlık, Other Journals, April 2019
7th International Building Physics Conference, IBPC 2018, Conference Paper (Full Text), May 2018
Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, August 2017
Construction And Building Materials, Journal Indexed in SCI-E, July 2017
Environmental Engineering And Management Journal, Journal Indexed in SCI-E, March 2017
Energy Efficiency, Journal Indexed in SCI-E, June 2016
Energy And Buildings, Journal Indexed in SCI-E, February 2016

Citations

Total Citations (WOS):42
h-index (WOS):3

Scholarships

TUBITAK 2219 – International Post-Doctoral Research Fellowship, TUBITAK, 2019 - 2020
ITU Scholarship for Supporting Post-graduate Thesis (Ph.D.), University, 2013 - 2015
Doctoral Fellowship, Foundation, 2008 - 2012

Awards

Mangan S. D. , Turkish Educational Foundation Post-Graduate Achievement Award , Türk Eğitim Vakfı, June 2007

Non Academic Experience

Company, SYSTEM Construction
Company, ENKA Construction and Industry Inc.
Company, ARIMA Architects
Company, AYDINLIOGLU Construction, Contracting, and Foreign Trade Inc.