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#### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6882-2018

ScopusID: 57202690690

Yoksis Researcher ID: 215098

#### Education Information

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- I. Doctorate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2016 - 2023
- II. Postgraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2013 - 2016
- III. Undergraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2009 - 2013

#### Foreign Languages

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- I. English, C2 Mastery
- II. German, A1 Beginner

#### Certificates, Courses and Trainings

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- I. Data Analysis, PH526x - Using Python for Research, Harvard University & edX, 2022
- II. Environment and Sustainability, Summer School on Energy Efficiency in Buildings, Beuth Hochschule für Technik Berlin, 2018

#### Dissertations

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- I. Doctorate, Leveraging Divergences: Building Control, Personal Comfort and Indoor Climate, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2023
- II. Postgraduate, Evaluation of Bluetooth Low Energy Technology for Indoor Localization in Built Environments, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2016

#### Research Areas

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Architecture, Building Information, Engineering and Technology

## Academic Titles / Tasks

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- I. Research Assistant, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2014 - Continues
- II. Researcher, The Pennsylvania State University, College of Engineering, Department of Architectural Engineering, 2021 - 2022

## Courses

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- I. ARCHITECTURAL DESIGN II, Undergraduate, 2023 - 2024
- II. ARCHITECTURAL DESIGN I, Undergraduate, 2023 - 2024
- III. Structural Design in Architecture II, Undergraduate, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015
- IV. Analysis of Building Envelope Design Through Case Studies, Undergraduate, 2020 - 2021
- V. Building Detail Modeling, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
- VI. Digital Media in Architecture, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015
- VII. Environmental and Building Systems, Undergraduate, 2019 - 2020
- VIII. Building Construction Technologies, Undergraduate, 2018 - 2019
- IX. Building Materials Technologies, Undergraduate, 2018 - 2019
- X. Structural Design in Architecture I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

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

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- I. **The role of user controls with respect to indoor environmental quality: From evidence to standards**  
Berger C., Mahdavi A., Ampatzi E., Bandurski K., Hellwig R. T., Schweiker M., TOPAK F., Zgank M.  
Journal of Building Engineering, vol.76, 2023 (SCI-Expanded)
- II. **Collective comfort optimization in multi-occupancy environments by leveraging personal comfort models and thermal distribution patterns**  
Topak F., Pavlak G. S., Pekeriçli M. K., Wang J., Jazizadeh F.  
BUILDING AND ENVIRONMENT, vol.239, 2023 (SCI-Expanded)
- III. **Technological Viability Assessment of Bluetooth Low Energy Technology for Indoor Localization**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
Journal of Computing in Civil Engineering, vol.32, no.5, 2018 (SCI-Expanded)

## Articles Published in Other Journals

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- I. **Collaborative building control: a conceptual mixed-initiative framework**  
Topak F., Pekeriçli M. K.  
Intelligent Buildings International, vol.14, no.4, pp.487-498, 2022 (ESCI)
- II. **Transformation of the Interface: Future Human-Building Interactions**  
Topak F., Pekeriçli M. K.  
Grid - architecture, planning and design journal (Online), vol.4, no.1, pp.38-52, 2021 (Peer-Reviewed Journal)
- III. **Sustainable construction in Turkish higher education context**  
Topak F., Tokdemir O. B., Pekeriçli M. K., Tanyer A. M.  
Journal of Construction Engineering, Management and Innovation, vol.2, pp.40-47, 2019 (Peer-Reviewed Journal)

- I. **Yapı Tasarımı ve İşletiminde Bina Kullanıcılarının Dikkate Alınması: Türkiye Bağlamı**  
Topak F.  
4.Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 2 - 03 May 2024, pp.1-8
- II. **Accounting for occupants in current building design and operation practice**  
Hellwig R. T., Gauthier S., Mino-Rodriguez ., Syndicus M., Markovic R., Amanowicz Ł., André M., Arpan L., Azar E., Balazs R., et al.  
CIBSE Technical Symposium 2024 Fit for 2050 - Delivering buildings and defining performance for a net zero built environment, Cardiff, England, 11 - 12 April 2024, pp.1-8
- III. **Analysis of Thermal Distribution Patterns in Multi-Occupancy Environments**  
Topak F., Pavlak G. S., Pekeriçli M. K., Wang J.  
ASHRAE 2023 Annual Conference, Florida, United States Of America, 24 - 28 June 2023
- IV. **Energy Efficiency and Comfort Optimization in Shared Indoor Spaces**  
TOPAK F., PAVLAK G. S., PEKERİÇLİ M. K., WANG J.  
Next Built - International Conference on Challenges for the Next Generation Built Environment, Bologna, Italy, 13 May 2022
- V. **Towards Using Human-Computer Interaction Research for Advancing Intelligent Built Environments: A Review**  
Topak F., Pekeriçli M. K.  
6th international Project and Construction Management Conference (IPCMC2020), 12 - 14 November 2020, pp.835-843
- VI. **Human-Building Interactions in Intelligent Built Environments**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
II. International Conference and Exhibition on Digital Transformation & Smart Systems - DTSS 2019, Ankara, Turkey, 23 - 25 October 2019, pp.89-92
- VII. **Turkish Architectural and Civil Engineering Education within the Scope of Sustainable Construction**  
Topak F., Tokdemir O. B., Pekeriçli M. K., Tanyer A. M.  
5. International Project and Construction Management Conference (IPCMC), Girne, Cyprus (Kktc), 16 - 18 November 2018, pp.200-208
- VIII. **Integration of Fire Vulnerability and Indoor Localization in Built Environments**  
Kızılkaya Öksüz N., Topak F., Pekeriçli M. K., Tanyer A. M.  
MSTAS 2017 - 11th Computational Design in Architecture National Symposium, Ankara, Turkey, 14 - 15 June 2017
- IX. **Yapılı Çevre İçin Kapalı Alanlarda Konum Belirleme Kullanım Potansiyellerinin İncelenmesi**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
3. Ulusal Yapı Kongresi, Ankara, Turkey, 25 - 26 November 2016, pp.181-192
- X. **Kapalı Alanlarda Konum Bulma Teknolojilerinin Yapılı Çevre için Değerlendirilmesi**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016, pp.831-842
- XI. **An Assessment of Bluetooth Low Energy Technology for Indoor Localization**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
CIB W78: 33rd International IT in Construction Conference, Brisbane, Australia, 31 October - 02 November 2016
- XII. **A Bluetooth Low Energy Based Framework Approach for Real time Occupancy Detection**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
Sustainable Built Environments 2016 (SBE16), İstanbul, Turkey, 13 - 15 October 2016, pp.716-725
- XIII. **A Review of Indoor Localization Use Cases in the Built Environment**  
Topak F., Pekeriçli M. K., Tanyer A. M.  
International Conference on Advanced Technology Science (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.967-972

## Supported Projects

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- I. TANYER A. M., AY M. B., KIZILKAYA ÖKSÜZ N., TOPAK F., PEKERİÇLİ M. K., Project Supported by Higher Education Institutions, Giyilebilir Teknolojiler Yardımıyla Şantiyedeki Proje Ekibinin Performansının Belirlenmesi, 2017 - 2020

## Scientific Refereeing

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- I. SCIENTIFIC REPORTS, Journal Indexed in SCI-E, February 2024
- II. INTELLIGENT BUILDINGS INTERNATIONAL, Journal Indexed in ESCI, January 2024
- III. METU Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, January 2024
- IV. METU Journal Of The Faculty Of Architecture , Journal Indexed in AHCI, December 2023
- V. BUILDING AND ENVIRONMENT, SCI Journal, May 2023
- VI. Healthy Buildings Europe 2023, Conference Paper (Full Text), February 2023
- VII. ENERGY SUSTAINABILITY AND SOCIETY, SCI Journal, April 2021
- VIII. The 4th International Conference on Computer Science and Application Engineering, Conference Paper (Full Text), July 2020

## Scientific Research / Working Group Memberships

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- I. Annex 87 - Energy And Indoor Environmental Quality Performance Of Personalised Environmental Control Systems, International Energy Agency - Energy in Buildings and Communities Programme (IEA EBC), United States Of America, <https://annex87.iea-ebc.org/>, 2022 - Continues
- II. Annex 79 - Occupant-Centric Building Design And Operation, International Energy Agency - Energy in Buildings and Communities Programme (IEA EBC), United States Of America, <https://annex79.iea-ebc.org/>, 2021 - 2023

## Metrics

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Publication: 19  
Citation (WoS): 42  
Citation (Scopus): 47  
H-Index (WoS): 3  
H-Index (Scopus): 3

## Congress and Symposium Activities

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- I. 33rd International CIB W78 IT in Construction Conference, Attendee, Brisbane, Australia, 2016

## Scholarships

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- I. Visiting Scholar Fellowship for PhD Research, TUBITAK, 2021 - 2022
- II. Scholarship for Summer School on Energy Efficiency, Official Institutions of Foreign Countries, 2018 - 2018

## Awards

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- I. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü), Odtü Geliştirme Vakfı, December 2023
- II. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü) , Odtü Geliştirme Vakfı, September 2023
- III. Topak F., International Scientific Publication Incentive Award (Yayın Teşvik Ödülü), Tubitak, November 2018
- IV. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü), Odtü Geliştirme Vakfı, September 2018

## Coaching Duties

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## Refereeing Duties

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