

## **Prof. ALİ MURAT TANYER**

### **Personal Information**

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### **International Researcher IDs**

ScholarID: 1ivIwpkAAAAJ

ORCID: 0000-0002-2257-5222

Publons / Web Of Science ResearcherID: J-5940-2018

ScopusID: 6508345186

Yoksis Researcher ID: 165239

### **Education Information**

Doctorate, University of Salford, School Of Construction And Property Management, United Kingdom 2000 - 2005

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Turkey 1997 - 1999

Undergraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 1992 - 1997

### **Foreign Languages**

English, C1 Advanced

### **Research Areas**

Informatics in Construction Management, Construction Management, Physical Urban Protection, Project and Construction Management

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2020 - Continues

Associate Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2011 - 2019

Assistant Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2006 - 2011

Research Assistant, Middle East Technical University, Faculty of Architecture, Department of Architecture, 1998 - 2006

### **Academic and Administrative Experience**

Program Koordinatörü, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2018 - 2019

Program Koordinatörü, Middle East Technical University, Graduate School of Natural and Applied Sciences, 2013 - 2019

Middle East Technical University, Faculty of Architecture, Department of Architecture, 2008 - 2016

## Advising Theses

- TANYER A. M., Prediction of energy performance gap in buildings with machine learning algorithms, Doctorate, D.YILMAZ(Student), 2022
- TANYER A. M., Embodied carbon assessment of urban railway systems in Turkey based on material quantification, Postgraduate, M.YÜKSEL(Student), 2021
- Tanyer A. M., PEKERİÇLİ M. K., A search for a methodology to identify the effect of employee characteristics on spatial requirements and expectations from modern office design, Postgraduate, Z.KINA(Student), 2020
- Tanyer A. M., Çalışkan M., Slot-perforated panel system proposal for variable acoustic solutions, Postgraduate, M.EŞMEBAŞI(Student), 2019
- Tanyer A. M., Motivation and job satisfaction of architects in Turkey, Postgraduate, G.EJDER(Student), 2019
- Tanyer A. M., A KNOWLEDGE REPRESENTATION TOOL FOR ARCHITECTURAL SPACES: A STUDY ON SURGERY UNITS, Postgraduate, M.US(Student), 2019
- TANYER A. M., A knowledge representation tool for architectural spaces : a study on surgery unitsh, Postgraduate, M.Us(Student), 2019
- TANYER A. M., A LIFE CYCLE COSTING BASED DECISION SUPPORT TOOL FOR COST-OPTIMAL ENERGY EFFICIENT DESIGN AND/OR REFURBISHMENTS, Doctorate, Ş.EMEKCİ(Student), 2018
- Tanyer A. M., Pekerçi M. K., Parameterization of built environment for wind resource assessment, Postgraduate, Ş.SAKÇAK(Student), 2018
- TANYER A. M., A life cycle sustainability assessment methodology for thermal insulation materials, Postgraduate, B.İLHAN(Student), 2018
- TANYER A. M., A life cycle assessment based decision support tool for early-design phase of mass-housing neighbourhoods in Turkey, Doctorate, N.CİHAN(Student), 2018
- Tanyer A. M., Dikmen Toker İ., A decision support system for performance assessment and improvement in PPP healthcare projects, Doctorate, B.ÖNGEL(Student), 2018
- TANYER A. M., PEKERİÇLİ M. K., An investigation of building information modeling maturity in Turkish small-medium size enterprises architectural and engineering firms, Postgraduate, R.SARI(Student), 2017
- TANYER A. M., Gender factor in construction conflict management: a study through a competency based after scenario behavioral rating, Postgraduate, İ.ÜNSAL(Student), 2017
- TANYER A. M., PEKERİÇLİ M. K., Fire vulnerability assessment of architectural design parameters with fuzzy logic model, Postgraduate, N.KIZILKAYA(Student), 2016
- TANYER A. M., PEKERİÇLİ M. K., Evaluation of bluetooth low energy technology for indoor localization in built environments, Postgraduate, F.TOPAK(Student), 2016
- TANYER A. M., Case-based reasoning model for the management of design related changes in design-build construction projects, Postgraduate, A.ÖZGÜNEŞ(Student), 2016
- TANYER A. M., Assessing the airtightness performance of container-like buildings in relation to its effect on energy efficiency, Postgraduate, M.BEKBOLİEV(Student), 2015
- DİKMEN TOKER İ., TANYER A. M., A multi agent risk analysis and sharing platform for international construction projects, Doctorate, G.DAĞKIRAN(Student), 2015
- TANYER A. M., Thermal bridge detailing in tunnel form buildings with passive house principles, Postgraduate, D.YILMAZ(Student), 2014
- TANYER A. M., Technology, engineering and modernity in Turkey: The case of road bridges between 1850 and 1960, Doctorate, H.TUĞBA(Student), 2010
- TANYER A. M., Assessment of convention centers from users' perspective: Application of importance-performance analysis, Postgraduate, T.PEMBEGÜL(Student), 2009
- TANYER A. M., Assessment of convention centers from users' perspective: application of importance-performance analysis, Postgraduate, T.Pembegül(Student), 2009
- TANYER A. M., Exploring knowledge management in the practice of architecture: A pilot study from the Turkish capital,

Postgraduate, N.CİHAN(Student), 2009

TANYER A. M., Assessing risk management maturity: A framework for the construction companies, Postgraduate, B.ÖNGEL(Student), 2009

TANYER A. M., A proposal for the structure of production drawings of “design / build” construction projects in computer environment, Postgraduate, N.NAZ(Student), 2007

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, İstanbul Teknik Üniversitesi, September, 2020

Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, July, 2020

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, May, 2020

Associate Professor Exam, Associate Professor Exam, İstanbul Bilgi Üniversitesi, April, 2020

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, April, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2019

## Designed Lessons

Kayaçetin N. C., Tanyer A. M., Life Cycle Assessment in Built Environment, Postgraduate, 2019 - 2020

Tanyer A. M., Pekerçli M. K., Energy Efficiency in Built Environment, Postgraduate, 2018 - 2019

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

- I. **A multi-stakeholder engagement framework for material-building-city synergy through circular transformation**  
Bostancı H. B., TANYER A. M., Habert G.  
Sustainable Cities and Society, vol.116, 2024 (SCI-Expanded)
- II. **A data-driven energy performance gap prediction model using machine learning**  
Yılmaz D., TANYER A. M., Toker I.  
Renewable and Sustainable Energy Reviews, vol.181, 2023 (SCI-Expanded)
- III. **Fuzzy-based escape route fire-vulnerability assessment model for indoor built environment**  
Kizilkaya Öksüz N., Tanyer A. M., Pekerçli M. K.  
INDOOR AND BUILT ENVIRONMENT, vol.32, no.1, pp.116-132, 2023 (SCI-Expanded)
- IV. **Embodied carbon assessment of residential housing at urban scale**  
Kayacetin N. C., Tanyer A. M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.117, 2020 (SCI-Expanded)
- V. **Context-Dependent Construction Conflict Management Performance Analysis Based on Competency Theory**  
Altuncan I. U., Tanyer A. M.  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, vol.144, no.12, 2018 (SCI-Expanded)
- VI. **Technological Viability Assessment of Bluetooth Low Energy Technology for Indoor Localization**  
Topak F., Pekerçli M. K., Tanyer A. M.  
Journal of Computing in Civil Engineering, vol.32, no.5, 2018 (SCI-Expanded)
- VII. **Assessing the airtightness performance of container houses in relation to its effect on energy efficiency**  
Tanyer A. M., Tavukçuoğlu A., Bekboliev M.  
BUILDING AND ENVIRONMENT, vol.134, pp.59-73, 2018 (SCI-Expanded)
- VIII. **Ontology for Relating Risk and Vulnerability to Cost Overrun in International Projects**

- Fidan G., Dikmen I., Tanyer A. M., Birgönül M. T.  
JOURNAL OF COMPUTING IN CIVIL ENGINEERING, vol.25, pp.302-315, 2011 (SCI-Expanded)
- IX. **POST OCCUPANCY EVALUATION IN THE PRACTICE OF ARCHITECTURE A CASE STUDY OF LUTFI KIRDAR CONVENTION AND EXHIBITION CENTRE**  
Tanyer A. M., Pembegül T.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.27, no.1, pp.241-265, 2010 (AHCI)
- X. **EXPLORING KNOWLEDGE MANAGEMENT IN THE PRACTICE OF ARCHITECTURE: A PILOT STUDY IN THE TURKISH CAPITAL**  
Kayacetin N. C., TANYER A. M.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.26, no.2, pp.279-307, 2009 (AHCI)
- XI. **Moving beyond the fourth dimension with an IFC-based single project database**  
Tanyer A., Aouad G.  
AUTOMATION IN CONSTRUCTION, vol.14, no.1, pp.15-32, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A network-based model for the assessment of success in PPP healthcare projects**  
Ongel B., Tanyer A. M., Dikmen I.  
International Journal of Construction Management, vol.24, no.8, pp.875-887, 2024 (ESCI)
- II. **Sustainable construction in Turkish higher education context**  
Topak F., Tokdemir O. B., Pekerli M. K., Tanyer A. M.  
Journal of Construction Engineering, Management and Innovation, vol.2, pp.40-47, 2019 (Peer-Reviewed Journal)
- III. **Housing Problem of the Lower Income Group in Turkey and Life Cycle Costing (LCC) Based Solution**  
Emekçi Ş., TANYER A. M.  
Tasarım Kuram, vol.15, pp.55-63, 2019 (Peer-Reviewed Journal)
- IV. **İnşaat Sektörü İçin Yeni Bilgi ve İletişim Teknolojileri**  
TANYER A. M., PEKERİÇLİ M. K.  
İNTES-İnşaat Sanayi Dergisi, 2012 (Non Peer-Reviewed Journal)
- V. **İnşaat Sektörü İçin Bilgi Teknolojileri**  
TANYER A. M., PEKERİÇLİ M. K.  
Türkiye Mühendislik Haberleri, 2008 (Non Peer-Reviewed Journal)
- VI. **İnşaat Sektörü İçin Bilgi Teknolojilerindeki Son Gelişmeler**  
TANYER A. M., PEKERİÇLİ M. K.  
Tasarım Merkezi Dergisi, 2006 (Non Peer-Reviewed Journal)
- VII. **Urban Information Model for City Planning**  
Hamilton A., Wang H., TANYER A. M., Arayıcı Y., Zhang X., Wu S.  
Electronic Journal of Information Technology in Construction, pp.55-67, 2005 (Scopus)

## Books & Book Chapters

- I. **Sustainability Assessments of Urban Railway Systems: Case Study Evaluations in Turkey**  
YÜKSEL M., TANYER A. M., PEKERİÇLİ M. K.  
in: Sustainable Ecological Engineering Design, Scott L., Dastbaz M., Gorse C., Editor, Springer, pp.93-104, 2019
- II. **Analysis of Embodied Carbon in Buildings Supported by a Data Validation System**  
Kayaçetin N. C., Tanyer A. M.  
in: Embodied Carbon in Buildings: Measurement, Management, and Mitigation, F. Pomponi, C. De Wolf, A. Moncaster, Editor, Springer, London/Berlin, Zürich, pp.143-164, 2018
- III. **Analysis of Embodied Carbon in Buildings Supported by a Data Validation System**  
Kayaçetin N. C., Tanyer A. M.

in: Embodied Carbon in Buildings: Measurement, Management, and Mitigation, F. Pomponi, C. De Wolf, A. Moncaster, Editor, Springer, London/Berlin, Zürich, pp.143-164, 2018

**IV. Design and Evaluation of an Integrated Design Practice Course in the Curriculum of Architecture**  
TANYER A. M.

in: Handbook of Research on Building Information Modeling and Construction Informatics Concepts and Technologies, Underwood, J. and Işıkdag, Ü., Editor, IGI-Global, pp.561-585, 2010

**V. Integration of Building and Urban nD Data to Support Intelligent Cities**

Hamilton A., Wang H., Tah J., TANYER A. M., Curwell S., Marshall Ponting A., Song Y., Arayici Y.

in: Constructing the Future nD Modelling, Aouad, G.; Lee, A.; Wu, S., Editor, Taylor & Francis, pp.350-371, 2007

## Refereed Congress / Symposium Publications in Proceedings

**I. Resilience for Fire Safety**

Kızılkaya Öksüz N., Tanyer A. M.

International Disaster & Resilience Congress (IDRC2019), Eskişehir, Turkey, 26 - 28 June 2019, pp.105-106

**II. Comparison of European and USA Based Construction Contracts and Understanding the Cultural Differences in Contract Bodies**

SARI R., PEKERİÇLİ M. K., TANYER A. M.

5th international Project and Construction Management Conference (IPCMC2018), Kıbrıs, Turkey, 16 - 18 November 2018

**III. Critical Success Factors in Architectural Design Firms in Turkey**

EJDER YÜCEL G., TANYER A. M., PEKERİÇLİ M. K.

5. International Project and Construction Management Conference (IPCMC), 16 - 18 November 2018

**IV. Karbon-Nötr Ekonomiye Geçiş Perspektifinde Bir Yazılım Algoritmasının Geliştirilmesi ve GAP Bölgesi Binalar Sektörüne Uygulanması**

Baçoğlu D., Pekerçli M. K., Tanyer A. M., Pınarcıoğlu M. M., Yeşilata B.

Uluslararası GAP Yenilenebilir Enerji ve Enerji Verimliliği Kongresi (GAPYENEV 2018), Şanlıurfa, Turkey, 10 - 12 May 2018, pp.409-410

**V. Life-Cycle Assessment Based Decision Support System Model for Early Design Phase of Mass Housing Projects**

Kayaçetin N. C., Tanyer A. M.

Powering the Energy Transition: The Role of Renewable Energy and Energy Efficiency, Ankara, Turkey, 7 - 08 September 2017

**VI. Kapalı Alanlarda Konum Bulma Teknolojilerinin Değerlendirilmesi**

TOPAK F., PEKERİÇLİ M. K., TANYER A. M.

4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016

## Supported Projects

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

TANYER A. M., KIZILKAYA N., ÇETİN Ö., EROL F., GÜNEY B. A., TAVUKÇUOĞLU A., ATIKOĞLU C., PINARCIOĞLU M. M., PEKERİÇLİ M. K., ERDİL M., et al., Project Supported by Higher Education Institutions, Miselyum Tabanlı Biyolojik Bir Yapı Malzemesinin Laboratuvar Testleri Aracılığı İle Malzeme Özelliklerinin Belirlenmesi, 2016 - 2020

PEKERİÇLİ M. K., TANYER A. M., Project Supported by Higher Education Institutions, EV VE OFİS KULLANICILARI İÇİN ENERJİ İZLEME SİSTEMİ TASARLANMASI, 2015 - 2017

PINARCIOĞLU M. M., TANYER A. M., PEKERİÇLİ M. K., Project Supported by Higher Education Institutions, EKOLOJİK YERLEŞİMLERDE SOSYAL SÜREÇLERİN ANALİZİ : SOSYO-EKONOMİK VE ÇEVRESEL DENGELER, 2015 - 2016

TANYER A. M., KAYAÇETİN N. C., PEKERİÇLİ M. K., Project Supported by Higher Education Institutions, Hayat Döngüsü

Degerlendirmesi (HDD) Yöntemi Ile MATPUM Binası Çevresel Etkilerinin Incelenmesi Ve Diğer Ofis Binaları ile Karsilastirilmesi, 2014 - 2016

PEKERİÇLİ M. K., TANYER A. M., Project Supported by Higher Education Institutions, Telsiz Teknolojiler Yardımıyla Proje Ekibi Yerinin Şantiyede Belirlenmesi, 2013 - 2015

TANYER A. M., Project Supported by Higher Education Institutions, Matpum Binası İklim Verilerinin Enerji Simülasyon Verileri İle Karşılaştırılması, 2011 - 2011

## Scientific Refereeing

ENGINEERING, CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, Journal Indexed in SSCI, November 2023

METU JOURNAL OF THE FACULTY OF ARCHITECTURE = ODTÜ MIMARLIK FAKÜLTESİ DERGISI, Journal Indexed in AHCI, September 2023

METU JOURNAL OF THE FACULTY OF ARCHITECTURE = ODTÜ MIMARLIK FAKÜLTESİ DERGISI, Journal Indexed in AHCI, August 2023

IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT, SCI Journal, April 2023

METU JOURNAL OF THE FACULTY OF ARCHITECTURE = ODTÜ MIMARLIK FAKÜLTESİ DERGISI, Journal Indexed in AHCI, August 2022

GRİD - ARCHİTECTURE, PLANNİNG AND DESİGN JOURNAL (ONLİNE), National Scientific Refreed Journal, February 2022

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, November 2021

Smart and Sustainable Built Environment, Journal Indexed in ESCI, October 2021

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, October 2021

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, September 2021

5. Ulusal Yapı Kongresi, Conference Paper (Full Text), May 2021

5. Ulusal Yapı Kongresi, Conference Paper (Full Text), May 2021

5. Ulusal Yapı Kongresi, Conference Paper (Full Text), April 2021

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGISİ, National Scientific Refreed Journal, April 2021

5. Ulusal Yapı Kongresi, Conference Paper (Full Text), April 2021

JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, March 2021

JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, Journal Indexed in SCI-E, February 2021

Dokuz Eylül Üniversitesi Mimarlık Fakültesi Dergisi, Other Journals, December 2020

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, December 2020

Smart and Sustainable Built Environments, Journal Indexed in ESCI, August 2020

A|Z İTÜ Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal, July 2020

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, July 2020

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, May 2020

Smart and Sustainable Built Environment, Journal Indexed in ESCI, December 2019

TASARIM + KURAM, National Scientific Refreed Journal, December 2019

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, December 2019

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, December 2019

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGISİ, National Scientific Refreed Journal, November 2019

AB İPA Project, Middle East Technical University, Turkey, January 2019

4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Full Text), December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Full Text), December 2018

Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Full Text), December 2018

4.Ulusal Yapı Kongresi, Conference Paper (Full Text), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Full Text), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
4.Ulusal Yapı Kongresi, Conference Paper (Abstract), December 2018  
Smart and Sustainable Built Environment, Journal Indexed in ESCI, August 2018  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, July 2018

## Tasks In Event Organizations

Tanyer A. M., Pekerli M. K., Summer School on Energy Efficiency in Buildings, Science / Art Camp or Summer School Organization, Berlin, Germany, Eylül 2019  
Tanyer A. M., Atikoğlu M. C., Çelebi G., Karakuş Candan T., Tavukçuoğlu, Tavukçuoğlu, Tavukçuoğlu, Tavukçuoğlu A., Özeler Kanan, Özeler Kanan, Özeler Kanan, Özeler Kanan N., Köksal Ö., Erdil, Erdil, Erdil, Erdil, Erdil, Erdil M., Kızılkaya, Kızılkaya N., Korkmaz, Korkmaz, Korkmaz Z., et al., 4.Ulusal Yapı Kongresi, Scientific Congress, Antalya, Turkey, Aralık 2018  
Tanyer A. M., 5th International Project & Construction Management Conference IPCMC 2018, Scientific Congress, Girne, Cyprus (Kktc), Kasım 2018  
Tanyer A. M., Pekerli M. K., Summer School on Energy Efficiency in Buildings, Science / Art Camp or Summer School Organization, Berlin, Germany, Ağustos 2018

## Metrics

Publication: 86  
Citation (WoS): 253  
Citation (Scopus): 356  
H-Index (WoS): 6  
H-Index (Scopus): 7

## Invited Talks

Yeşil Kampüs Tasarım, Yönetim, Sertifikalandırma, Conference, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Turkey, December 2021  
Productivity of the Construction Industry, Conference, International Conference on the Efficiency of Creative Industries in the Hyper Connected Era, Turkey, September 2021

## Non Academic Experience

METU  
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