

## Assoc. Prof. BUKET METİN



### Personal Information

**Email:** buket.metin@agu.edu.tr

**Other Email:** metinbuket@gmail.com

**Web:** [https://www.researchgate.net/profile/Buket\\_Metin](https://www.researchgate.net/profile/Buket_Metin)

**Address:** Abdullah Gül Üniversitesi, Sümer Kampüsü, Büyük Ambar Binası, No: BA120, 38060, Kocasinan, Kayseri



### International Researcher IDs

ORCID: 0000-0001-7539-7776

Publons / Web Of Science ResearcherID: N-2468-2014

ScopusID: 56020768400

Yoksis Researcher ID: 26120

### Education Information

Associate Degree, Anadolu University, Open Education Faculty, Cultural Heritage and Tourism, Turkey 2017 - 2019

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, Turkey 2011 - 2017

Doctorate, Technische Universiteit Delft, Faculty of Architecture , Department of Architecture, Guest Researcher , Netherlands 2016 - 2016

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, Turkey 2008 - 2010

Undergraduate, Istanbul Technical University, Mimarlık, Mimarlık, Turkey 2002 - 2008

Undergraduate, Universitaet der Künste Berlin, Faculty of Architecture , Department of Architecture, Erasmus Student Mobility Program , Germany 2007 - 2007

### Foreign Languages

English, C1 Advanced

German, A1 Beginner

### Dissertations

Doctorate, A Model Proposal for Assessing Environmental Performance of Building Construction Process , Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, 2017

Postgraduate, Assessing Construction Process of the Cladding Systems in the Context of Environmental Sustainability , Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimarlık, 2010

### Research Areas

Architecture, Building Information, Structural elements, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2018 - Continues  
Lecturer PhD, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2017 - 2018  
Research Assistant, Istanbul Technical University, Mimarlık Fakültesi, Mimarlık Bölümü, 2012 - 2017  
Research Assistant, Gebze Technical University, Faculty Of Architecture, Department Of Architecture, 2011 - 2012

## Academic and Administrative Experience

Bologna Eşgüdüm ve Akreditasyon Komisyonu, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2023 - Continues  
Head of Department, Abdullah Gul University, Fen Bilimleri Enstitüsü, 2023 - Continues  
Eğitim ve Müfredat Kurulu üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2023 - Continues  
Fakülte Kurulu Üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2022 - Continues  
Birim Kalite Komisyonu Üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2022 - Continues  
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2021 - Continues  
Erasmus Program Department Coordinator, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2020 - Continues  
Head of Department, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2018 - Continues  
Vice Dean, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2022 - 2024  
Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2022 - 2023  
Adaptation/Exemption Committee Member, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2022 - 2023  
Deputy Head of Department, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2020 - 2022  
Staj Başkanı, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2018 - 2022  
Enstitü Yönetim Kurulu Üyesi, Abdullah Gul University, Fen Bilimleri Enstitüsü, Mimarlık Anabilim Dalı, 2018 - 2021  
Adaptation/Exemption Committee Member, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2018 - 2020  
Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Abdullah Gul University, Mimarlık Fakültesi, Mimarlık, 2018 - 2020

## Courses

Building Technologies, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Elements & Components 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Research Methodology in Architectural Studies, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Architectural Design 3, Undergraduate, 2023 - 2024, 2022 - 2023  
Alternative Construction Methods, Undergraduate, 2021 - 2022, 2020 - 2021  
Materials & Behaviors, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Elements & Components 2, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Environmental Performance of Buildings, Postgraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018  
Studio 2, Postgraduate, 2020 - 2021, 2019 - 2020  
Architectural Design 6/Capstone, Undergraduate, 2020 - 2021  
Seminar, Postgraduate, 2019 - 2020, 2018 - 2019  
Studio 1, Postgraduate, 2020 - 2021, 2019 - 2020  
Understanding Contemporary World, Postgraduate, 2019 - 2020  
Seminar, Doctorate, 2019 - 2020  
Design Methods & Praxis, Undergraduate, 2019 - 2020, 2018 - 2019

Advanced Technologies in Building and Construction, Postgraduate, 2019 - 2020, 2018 - 2019

Architectural Design 4, Undergraduate, 2018 - 2019

Professional Practice & Ethics, Undergraduate, 2017 - 2018

## Advising Theses

Metin B., A Comprehensive Perspective into The Use of Origami in Architecture, Postgraduate, D.Demir(Student), 2023

Metin B., An Assessment on The Turkish Construction Industry's Approach to Innovative Facade Cladding Materials, Postgraduate, N.BATMAZ(Student), 2023

Metin B., A Housing Design Assessment Approach to Improve The Quality of Life in Old Age , Postgraduate, A.Görez(Student), 2022

Metin B., Oktav A., Experimental and Computational Evaluation of Acoustical Performance of Multipurpose Music Classrooms , Postgraduate, A.Aslan(Student), 2020

## Designed Lessons

Metin B., Alternative Construction Methods, Undergraduate, 2020 - 2021

Metin B., Advanced Technologies in Building and Construction , Postgraduate, 2018 - 2019

Metin B., Environmental Performance of Buildings, Postgraduate, 2017 - 2018

## Designed Courses And Trainings

Metin B., Rammed Earth Workshop | Layer by Layer / Sıkıştırılmış Toprak Atölyesi, September 2019

Metin B., Sürdürülebilir / Yenilikçi Cephe Tasarımı Atölyeleri-2: Atık Malzemelerle Tasarım, June 2015

Metin B., Sürdürülebilir / Yenilikçi Cephe Tasarımı Atölyeleri-1: Çağdaş Malzemelerle Yenilikçi Tasarım, June 2014

Metin B., Cephe Tasarımı: Geleceğin Cepheleri-Cephelerin Geleceği , February 2013

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

- I. **Determination of the acoustical performance of multipurpose music classrooms**  
Aslan A., Oktav A., Metin B.  
ARCHITECTURAL SCIENCE REVIEW, vol.67, no.1, pp.89-103, 2024 (AHCI)
- II. **Economic performance assessment of residential building retrofits: a case study of Istanbul**  
Çetiner İ., Metin B.  
Energy Efficiency, vol.10, no.5, pp.1061-1079, 2017 (SCI-Expanded)
- III. **Environmental assessment of external wall cladding construction**  
Metin B., Tavit A.  
Architectural Science Review, vol.57, no.3, pp.215-226, 2014 (AHCI)

## Articles Published in Other Journals

- I. **Multilayered and Interacting Course Design Approach in Architecture Education: A Case of Building and Construction Technology Courses and Studios**  
Metin B.  
Journal of Design Studio, vol.5, no.1, pp.145-174, 2023 (Peer-Reviewed Journal)
- II. **Life Cycle Assessment of Internal Wall Panels: A Case Study of Sumerbank Kayseri Textile Factory Restoration Process**

Özkaya Kırılmaz E., Metin B.

JOURNAL OF ARCHITECTURAL SCIENCES AND APPLICATIONS, vol.8, no.1, pp.347-356, 2023 (Peer-Reviewed Journal)

**III. Kayseri Arkeoloji Müzesi**

Metin B., Elagöz Timur B.

Betonart, no.70, pp.44-49, 2021 (Non Peer-Reviewed Journal)

**IV. Bina Yapım Sürecinin Çevresel Performans İlkeleriyle Planlanması**

Metin B.

Tasarım+Kuram, no.12, pp.34-54, 2016 (Peer-Reviewed Journal)

**V. A Database Model for Environmental Impact Assessment of External Wall Construction Techniques**

Metin B., Tavit G. A.

American Transactions on Engineering & Applied Sciences, vol.1, no.4, pp.351-363, 2012 (Peer-Reviewed Journal)

**VI. GYTE Mimarlık Bölümü Tasarımı**

AKYÜREK ALTÜRK G., AYYILDIZ POTUR M. A., SEVİNÇ KAYIHAN K., AYDIN İPEKÇİ C. N., BAYAZİTOĞLU Ü. C., SERTER N., METİN B.

Yapı Dergisi, pp.72-75, 2012 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. Mimarlık Pratiği ve Teknolojik Yenilik Etkileşiminde İleri Bina ve Yapım Teknolojileri**

Metin B.

in: Mimarlık, Planlama & Tasarım Alanında Gelişmeler, Prof. Dr. Fürüzan Aslan, Editor, Platanus Publishing @, Ankara, pp.533-555, 2023

**II. Sanayi, Yeni Merkez**

Asiliskender B., Metin B.

in: Tasarımcılar Kartal'da: keşfet ve Görünür Kıl, TAK Kartal, Editor, Kartal Belediyesi , İstanbul, pp.158-175, 2017

## Refereed Congress / Symposium Publications in Proceedings

**I. Critical Discussion on Building Energy Retrofit Policies**

Utkan M. M., Metin B.

10th International Conference on Energy and Sustainability, Lisbon, Portugal, 2 - 04 October 2023, vol.1, no.38495, pp.13-23

**II. A Proposed Approach for Post-Earthquake Temporary Housing Design**

Metin B., Akın M., Utkan M. M.

3rd International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Turkey, 12 - 15 October 2023, pp.18-25

**III. Deprem Sonrası Barınma Alanlarındaki Yer Seçimleri ve Yerleşime Yönelik Kriterlerin Genel Değerlendirilmesi**

Akın M., Metin B., Kandemir M.

5. Uluslararası Afet ve Dirençlilik Kongresi: Afete Dirençli Türkiye, Kocaeli, Turkey, 11 - 13 October 2023, pp.554-559

**IV. Using Digital Fabrication Techniques with Earth-Based Building Materials**

Sayın İ., Metin B.

9th International Conference Kerpic'22: Re-Thinking Earthen Architecture for Sustainable Development, İstanbul, Turkey, 30 June - 03 July 2022, pp.109

**V. Cognitive Buildings as A Proposal for Housing Demand of Increasing Older Population in Turkey**

Görez A., Metin B.

VII. Congress on Urban Studies, Ankara, Turkey, 16 - 18 May 2022, pp.819-824

- VI. **Foldable Structures In Architecture: A Temporary Exhibition Unit Design**  
Demir D., Metin B.  
XII. International Sinan Symposium, Edirne, Turkey, 8 - 09 April 2021, pp.347-355
- VII. **Mimari Tasarımda Biyomimetik Uygulamaların Günümüz Teknolojileri Bağlamında İncelenmesi**  
Yılmaz Ş. E., Metin B.  
II. Mimarlık ve Şehircilik Lisansüstü Sempozyumu, İstanbul, Turkey, 16 - 20 November 2020, pp.103-104
- VIII. **Computational Investigation of Acoustical Performance of Multipurpose Music Classrooms**  
Aslan A., Metin B., Oktav A.  
III. International Symposium On Engineering Natural Sciences and Architecture (ISENSA), Kocaeli, Turkey, 16 April 2020, pp.44-53
- IX. **Technology as a Paradigm Transforming Building Industry**  
Metin B.  
1st International Conference on Architecture (ICONA), Rome, Italy, 18 - 19 December 2019, pp.132-133
- X. **An Environmental Perspective for Architectural Detail Design**  
Metin B.  
International Design and Engineering Symposium (IDES'19 ), İzmir, Turkey, 10 - 12 October 2019, pp.526-533
- XI. **Advanced Building Technologies Used in Housing Designed with Universal Design Principles**  
Yaratgan D., Metin B.  
2nd International Congress on Engineering and Architecture (ENAR), Muğla, Turkey, 22 - 24 April 2019, pp.1264-1274
- XII. **On-Site Robotic Technologies in Building Construction**  
Yılmaz Ş. E., Metin B.  
2nd International Congress on Engineering and Architecture (ENAR), Muğla, Turkey, 22 - 24 April 2019, pp.1203-1212
- XIII. **Environmental Decision Making Model for Assessing On site Performances of Building Subcontractors**  
Metin B.  
ICSAUDE 2016: 18th International Conference on Sustainable Architecture and Urban Design Engineering, İstanbul, Turkey, 19 - 20 December 2016, vol.12, pp.2745-2750
- XIV. **Bina Yapım Sürecinin Çevresel Performansının Değerlendirilmesi İçin Yapım Teknolojileri Tabanlı Bir Model Önerisi**  
Metin B., Ünlü G. A.  
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016, pp.1156-1169
- XV. **Environmental Performance Assessment of the Building Construction Process During Architectural Detailing**  
Metin B., Ünlü G. A.  
Eco-Architecture 2016, Alacant, Spain, 13 - 15 July 2016, pp.261-271
- XVI. **An Approach for Sustainable Buildings: Architectural Deconstruction Design**  
Metin B., Aydın İpekçi C. N.  
ARCHDESIGN'15 - Architectural Design Conference, İstanbul, Turkey, 6 - 08 July 2015
- XVII. **The Relationship between Construction Technologies and Environmental Impacts**  
Metin B., Ünlü G. A.  
40th IAHS World Congress on Housing, Funchal, Portugal, 16 - 19 December 2014
- XVIII. **Environmental Assessment of Cladding Construction A Case Study of Residential Buildings**  
Metin B., Ünlü G. A.  
3rd International Environment and Design Congress, İstanbul, Turkey, 11 - 12 December 2014, vol.1, pp.107-118
- XIX. **Environmental Impact Assessment of External Wall Construction Techniques**  
Metin B., Tavil G. A.  
ICWSAUD 2012-2nd International Conference-Workshop on Sustainable Architecture and Urban Design, Georgetown, Malaysia, 3 - 05 March 2012
- XX. **Assessing the Effect of Energy Efficient Renovations for Existing Residential Buildings on Use Period**

## **Energy Consumption According to Different Climatic Regions**

Çetiner İ., Metin B.

SB 11 - World Sustainable Building Conference, Helsinki, Finland, 18 - 21 October 2011

### **XXI. Enerji Etkin Konut Yenilemelerinde Enerji Tüketimi ve Yaşam Dönemi Maliyetlerinin Değerlendirilmesi: İstanbul Örneği**

Cetner I., Metin B.

Binalarda Enerji Performansı Sempozyumu, İzmir, Turkey, 13 - 16 April 2011

### **XXII. Bina Yapım Sürecinin Çevresel Etkilerinin Yapı Elemanları Ölçeğinde Değerlendirilmesi: Dış Duvar Sistemi Örneği**

Metin B., Tavit G. A.

1. Uluslararası Lisansüstü Araştırmaları Sempozyumu: Yapılı Çevre, Eskişehir, Turkey, 15 - 16 October 2010, vol.2, pp.21-26

### **XXIII. Sustainability of the Construction Process of the Cladding Systems**

Metin B., Tavit G. A.

ICBEST 2010-International Conference on Building Envelope Systems and Technologies, Vancouver, Canada, 27 - 30 June 2010, vol.1, pp.97-104

### **XXIV. Cephe Kaplama Sistemlerinin Uygulama Süreçlerinde Sürdürülebilirlik**

Metin B., Tavit G. A.

5. Ulusal Çatı ve Cephe Sempozyumu, İzmir, Turkey, 15 - 16 April 2010, pp.9-20

## **Supported Projects**

Akın M., Metin B., Kaya Z., Özmen M., TUBITAK Project, Determining Ideal Post-Earthquake Housing Design Criteria with an Interdisciplinary Approach and Developing a Decision Support System, 2021 - 2024

Metin B., Görez A., Gören M., TUBITAK Project, Design and Production of Architectural Technology Tools, 2021 - 2022

Ünlü A., Çelik O. C., Edis F. E., Metin B., Erasmus Project, Re-use of modernist Buildings-Design Tools for Sustainable Transformations, 2016 - 2018

Çetiner İ., Edis F. E., TUBITAK Project, İstanbul'daki Mevcut Konut Stokunun Bina Elemanları Ölçeğinde Kullanım Süresi Çevresel ve Ekonomik Sürdürülebilirliğinin Değerlendirilmesi ve İyileştirme Önerileri Geliştirilmesi, 2009 - 2012

## **Patent**

Metin B., Gebze Teknik Üniversitesi Mimarlık Bölümü Binası Tasarımı, Industrial Design, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2016 06563 , Standard Registration, 2016

Metin B., Gebze Teknik Üniversitesi Mimarlık Bölümü Binası Yerleşim Planı ve İç Dizaynı, Industrial Design, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2017 02565 , Standard Registration, 2016

Metin B., Gebze Teknik Üniversitesi Mimarlık Bölümü Binası Cephe Tasarımı, Industrial Design, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2016 06564 , Standard Registration, 2016

## **Design**

Metin B., Aydın İpekçi C. N., Kayıhan K. S., Akyürek Altürk G., Ayyıldız Potu A., Serter N., Ceren Bayazitoğlu Ü., Gebze Teknik Üniversitesi Mimarlık Bölümü Binası, Building Design / Architectural Project, June 2011

## **Activities in Scientific Journals**

A|Z ITU Journal of the Faculty of Architecture, Assistant Editor/Section Editor, 2012 - 2017

## Memberships / Tasks in Scientific Organizations

European Facade Network (EFN), Member, 2013 - Continues

Türkiye Mimarlar ve Mühendisler Odası Birliği (TMMOB) İstanbul Büyükşehir Şubesi, Member, 2008 - Continues

International Council for Research and Innovation in Building and Construction (CIB), Member, 2011 - 2017

## Tasks In Event Organizations

Kevseroğlu Ö., Metin B., Elagöz Timur B., Asiliskender B., Uzunyayla Rural Workshop, Workshop Organization, Kayseri, Turkey, Ağustos 2022

Metin B., Elagöz Timur B., Kılık A., Doğal Taş Tasarımı Atölyesi: Cephe Tasarımı, Workshop Organization, Kayseri, Turkey, Kasım 2019

Metin B., International Conference on Building Envelope Systems and Technologies (ICBEST) 2017, Scientific Congress, İstanbul, Turkey, Mayıs 2017

Metin B., "10 Facades for the Future" Student Design Competition, Art Activities, İstanbul, Turkey, Mayıs 2017

Metin B., İTÜ Mimarlık Fakültesi Araştırma Metotları Seminerleri: Araştırma Deneyimleri, Scientific Congress, İstanbul, Turkey, Mayıs 2014

Metin B., Yenilikçi Cepheler Konferansı, Scientific Congress, İstanbul, Turkey, Şubat 2013

Metin B., MimED Mimarlık Eğitimi Derneği stajİSTANBUL 2012 Programı, Workshop Organization, İstanbul, Turkey, Temmuz 2012

## Mobility Activity

Erasmus Programme, Lecturing, Politecnico di Bari, Italy, 2022 - 2022

Sabbatical Leave, Research During Graduate Education, Technische Universiteit Delft, Netherlands, 2016 - 2016

## Metrics

Publication: 38

Citation (WoS): 6

Citation (Scopus): 9

H-Index (WoS): 1

H-Index (Scopus): 2

## Invited Talks

Mimarlık, Teknoloji ve Ekoloji: Geleceği Tasarlamak, Conference, TÜBİTAK Bilim Söyleşileri / Nevşehir Şehit Demet Sezen Kız Anadolu İmam Hatip Lisesi, Turkey, December 2023

Mimarlık, Teknoloji ve Ekoloji: Geleceği Tasarlamak, Conference, Turkey, November 2023

Dış Duvar Sistemleri ve Çevresel Performans , Conference, Yapı Kataloğu, Turkey, October 2021

Mimarlık, Teknoloji ve Ekoloji: Geleceği Tasarlamak, Conference, TÜBİTAK Bilim Söyleşileri / Nevşehir Mesleki ve Teknik Anadolu Lisesi, Turkey, December 2019

Mimarlık, Teknoloji ve Ekoloji: Geleceği Tasarlamak, Conference, TÜBİTAK Bilim Söyleşileri / Kayseri Bilim Merkezi, Turkey, June 2019

## Scholarships

TÜBİTAK BİDEB 2211-Yurt İçi Doktora Burs Programı, TUBİTAK, 2011 - 2016

## **Awards**

Metin B., Gebze Teknik Üniversitesi Mimarlık Bölümü Binası, Türkiye Mimarlık Yıllığı 2015, Arkitera, March 2015

## **Entrepreneurship Activities**

Limited, T2 LAB Proje ve Teknoloji Geliştirme, Danışmanlık, Eğitim Hizmetleri, 06 July 2021, Co-Founder

## **Representation and Promotion Activities**

Institutional Promotion, Üniversite Tercihleri Fuarı, Turkey, İstanbul, 2020 - 2020

Institutional Promotion, Üniversite Tercihleri Fuarı , Turkey, İstanbul, 2020 - 2020

Institutional Promotion, Üniversite Tercihleri Fuarı, Turkey, İstanbul, 2020 - 2020

## **Non Academic Experience**

Technology Development Zone, T2 Lab Proje ve Teknoloji Geliştirme Danışmanlık Eğitim Hizmetleri, Mimarlık Teknolojisi

Other Public Institution, İstanbul Teknik Üniversitesi Döner Sermaye İşletmesi, Mimarlık Bölümü

Business Establishment Private, Erk Mimarlık, Mimarlık