

## Res. Asst. ÇAĞATAY TAKVA

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GSN-9088-2022

ScopusID: 58353320300

Yoksis Researcher ID: 355499

### Education Information

Doctorate, Gazi University, Mimarlık Fakültesi, Mimarlık, Turkey 2022 - Continues

Postgraduate, Gazi University, Mimarlık Fakültesi, Mimarlık, Turkey 2019 - 2021

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Other, Uluslararası Akdeniz Uygulamalı Bilimler Kongresi, İKSAD-INSTITUTE OF ECONOMIC DEVELOPMENT AND SOCIAL RESEARCH, 2022

Vocational Training, Afet Farkındalık Eğitimi, Disaster and Emergency Management Presidency, 2021

### Research Areas

Architecture, Building Information, Carrier Systems, Structural elements, Building materials, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Gazi University, Mimarlık Fakültesi, Mimarlık, 2023 - Continues

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

- I. **Accessibility analysis of public buildings with graph theory and the space syntax method: government houses**  
Keleş B. N., Takva Ç., Çakıcı F. Z.  
JOURNAL OF ASIAN ARCHITECTURE AND BUILDING ENGINEERING, 2023 (SCI-Expanded)
- II. **Structural analysis of steel load-bearing systems using tessellation method in geometric**

## **architectural design**

Takva Ç., İlerisoy Z. Y.

SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.48, no.3, 2023 (SCI-Expanded)

### **III. Effect of outrigger system in high-rise buildings on structural behavior and cost**

Takva Y., Takva Ç., İlerisoy Z. Y.

REVISTA DE LA CONSTRUCCION, no.2, pp.337-347, 2023 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **A BIBLIOMETRIC ANALYSIS OF THE CONCEPTS AND METHODS USED IN THE ADAPTIVE REUSE**  
Takva Ç., Özkan Yazgan E.  
International Journal of Conservation Science, vol.15, no.1, pp.479-496, 2024 (ESCI)
- II. **Post-earthquake fires: risk assessment and precautions**  
Gökşen F., Takva Ç., Takva Y., İlerisoy Z. Y.  
MEHRAN UNIVERSITY RESEARCH: JOURNAL OF ENGINEERING AND TECHNOLOGY, vol.43, no.1, pp.1-16, 2024 (ESCI)
- III. **Post-earthquake Disasters: A Systematic Review of the Classification and Evaluation of the Analysis Methods**  
Takva Ç., Soyluk A., İlerisoy Z. Y.  
Geoconservation Research (GCR), vol.6, no.2, pp.427-449, 2023 (ESCI)
- IV. **Geometric Design in Architecture: Examination of Tessellation Configurations in Structural Systems**  
Takva Ç., Gökşen F., Takva Y.  
PERIODICA POLYTECHNICA. ARCHITECTURE, vol.54, no.3, pp.167-176, 2023 (Peer-Reviewed Journal)
- V. **Digitalization of Building Site Management in the Construction Industry**  
Takva Ç., Cudzik J., İlerisoy Z. Y.  
International Journal of Sustainable Construction Engineering and Technology, vol.14, no.4, pp.171-193, 2023 (ESCI)
- VI. **Examination of Contemporary Additions Made with Adaptive Reuse of Historic Building Heritage**  
Takva Y., Takva Ç., Gökşen F., İlerisoy Z. Y.  
ONLINE JOURNAL OF ART AND DESIGN, vol.11, no.4, pp.124-136, 2023 (Peer-Reviewed Journal)
- VII. **A Contemporary House Proposal: Structural Analysis of Wood and Steel Bungalows**  
Takva Y., Takva Ç., Gökşen F., Takva F.  
ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, vol.13, no.3, pp.11032-11035, 2023 (ESCI)
- VIII. **Geometric Design in Islamic Architecture: Examination of Tessellation Configurations in Mosques**  
Takva Ç., Takva Y.  
Journal of History Culture and Art Research, vol.12, no.2, pp.1-20, 2023 (Peer-Reviewed Journal)
- IX. **Designing for Designers: The Campus and Building of Atatürk University Faculty of Architecture and Design**  
Takva Ç., Akçay F. Ç.  
Gazi University Journal of Science Part B: Art Humanities Design and Planning, vol.11, no.2, pp.297-306, 2023 (Peer-Reviewed Journal)
- X. **Flying Robot Technology (Drone) Trends: A Review in the Building and Construction Industry**  
Takva Ç., İlerisoy Z. Y.  
ARCHITECTURE CIVIL ENGINEERING ENVIRONMENT, no.1, pp.47-68, 2023 (ESCI)
- XI. **Climate-sensitive Design in Traditional Residential Architecture: Kars Karakurt Houses**  
Çakıcı F. Z., Takva Ç.  
INTERNATIONAL JOURNAL OF BUILT ENVIRONMENT AND SUSTAINABILITY, no.3, pp.1-11, 2023 (ESCI)
- XII. **Sustainable Adaptive Reuse Strategy Evaluation for Cultural Heritage Buildings**  
Takva Y., Takva Ç., İlerisoy Z. Y.  
INTERNATIONAL JOURNAL OF BUILT ENVIRONMENT AND SUSTAINABILITY, no.2, pp.25-37, 2023 (ESCI)

**XIII. Net Positive Energy Buildings in Architectural Context**

Takva Ç., Çalışkan B. N., Çakıcı F. Z.

Journal of Asian Scientific Research, vol.12, no.3, pp.135-145, 2022 (Peer-Reviewed Journal)

**XIV. Investigation of Tessellation Patterns in Long-Span Structures**

Takva Ç., İlerisoy Z. Y.

Gazi University Journal of Science Part B: Art Humanities Design and Planning, vol.9, no.3, pp.235-249, 2021 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **1970'lerde Düzenlenen Yarışma Projeleriyle Elde Edilen Atatürk Üniversitesi Kampüs Yapıları**  
Çakıcı F. Z., Takva Ç.  
in: Anadolu'nun İmarında Yarışmalar : 1930-1990, Filiz Sönmez, Semra Arslan Selçuk, Editor, İdealkent, Ankara, pp.349-360, 2023
- II. **STRUCTURAL APPLICATION OF GEOMETRIC PATTERNS: RECIPROCAL FRAME SYSTEMS**  
Takva Ç., Takva Y.  
in: CURRENT RESEARCH IN ARCHITECTURE, PLANNING AND DESIGN, GÜNGÖR, Sertaç, Editor, Gece Kitaplığı, Ankara, pp.67-82, 2023
- III. **2000 YILI VE SONRASI YARIŞMA PROJELERİNDE GENİŞ AÇIKLIK PROBLEMİ: BELEDİYE HİZMET BİNALARI ÜZERİNDEN İNCELENMESİ**  
Takva Y., Takva Ç.  
in: FEN VE MÜHENDİSLİK UYGULAMALARINDA MALZEME TEMİNİ VE ÜRETİM YÖNTEMLERİ, Serkan GÜLDAL, Editor, İKSAD, Ankara, pp.191-205, 2022
- IV. **3 BOYUTLU YAZICI TEKNOLOJİLERİNDE KONUT FONKSİYONU: BİBLİYOMETRİK ANALİZ**  
Top S. M., Takva Ç., İlerisoy Z. Y.  
in: BARINMA KÜLTÜRÜ, YALDIZ Esra, BÜYÜKŞAHİN Süheyla, Editor, Necmettin Erbakan Üniversitesi Yayınları, Konya, pp.497-514, 2022
- V. **BASIC EXCAVATION METHODS IN BUILDING-FOUNDATION INTERACTION; TOP-DOWN METHOD IN HIGH-RISE BUILDINGS**  
Takva Ç., Takva Y.  
in: ENGINEERING FROM MACHINE LEARNING TO VIRTUAL REALITY, Merivan ŞAŞMAZ, Editor, İKSAD, Ankara, pp.139-161, 2022
- VI. **TEMPORARY-SHELTERING STRUCTURES AND INVESTIGATION OF THEIR REUSE AFTER DISASTER**  
Takva Ç., Top S. M., Takva Y., İlerisoy Z. Y.  
in: Barınma Kültürü, Yıldız Esra, Büyükhahin Süheyla, Editor, Necmettin Erbakan Üniversitesi Yayınları, Konya, pp.505-522, 2022
- VII. **TESSELLATION CONFIGURATIONS TRANSFORMING FROM ART TO STRUCTURAL DESIGN OF GRIDSHELL STRUCTURES**  
Takva Ç., Takva Y.  
in: Research & Reviews in Architecture, Planning and Design, Gülbin ÇETİNKALE DEMİRKAN, Sertaç GÜNGÖR, Editor, Gece Kitaplığı, Ankara, pp.1-18, 2022

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Investigation of three-dimensional concrete printing (3DCP) technology in AEC industry in the context of construction, performance and design**  
Gebel Ş., Top S. M., Takva Ç., Gökgöz B. İ., İlerisoy Z. Y., Şahmaran M.  
Proceedings of 3rd International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.380-394

## II. MODULAR SYSTEM APPLICATIONS IN HIGH-RISE BUILDINGS

Takva Y., İlerisoy Z. Y., Takva Ç.

Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.399-409

## III. INVESTIGATION OF THE SHARD TOWER WITHIN THE SCOPE OF ADVANCED CONSTRUCTION TECHNIQUES

Takva Ç., İlerisoy Z. Y., Takva Y.

Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.385-398

## Supported Projects

Çakıcı F. Z., Çalışkan B. N., Takva Ç., Project Supported by Higher Education Institutions, Şimdi Kariyerimi Planlama Zamanı, 2022 - 2022

Çakıcı F. Z., Takva Ç., Çalışkan B. N., Project Supported by Higher Education Institutions, Huzur Var, 2022 - 2022

## Metrics

Publication: 27

Citation (WoS): 10

Citation (Scopus): 3

H-Index (WoS): 2

H-Index (Scopus): 1

## Congress and Symposium Activities

Mediterranean International Conference on Research in Applied Sciences , Attendee, Antalya, Turkey, 2022

Mediterranean International Conference on Research in Applied Sciences , Attendee, Antalya, Turkey, 2022