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Personal Information

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International Researcher IDs

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Education

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 Positions

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

Journal articles indexed in 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, vol.24, no.1, pp.199-213, 2025 (SCI-Expanded)

- II. **Applicability of 3D concrete printing technology in building construction with different architectural design decisions in housing**
Takva Ç., Top S. M., Gökgöz B. İ., Gebel Ş., İlterisoy Z. Y., İlcan H., Şahmaran M.
JOURNAL OF BUILDING ENGINEERING, vol.98, 2024 (SCI-Expanded)
- III. **Structural analysis of steel load-bearing systems using tessellation method in geometric architectural design**
Takva Ç., İlterisoy Z. Y.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.48, no.3, 2023 (SCI-Expanded)
- IV. **Effect of outrigger system in high-rise buildings on structural behavior and cost**
Takva Y., Takva Ç., İlterisoy Z. Y.
REVISTA DE LA CONSTRUCCION, no.2, pp.337-347, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **New Actor in Industry 4.0 and Building Production Sector: Robotic Systems and Autonomous Robots**
Özmen E. F., Takva Ç., Aslan S., İlterisoy Z. Y.
Modular Journal, vol.7, no.1-2, pp.160-180, 2024 (Peer-Reviewed Journal)
- II. **Exploring the role of 3D concrete printing in AEC: Construction, design, and performance**
Gebel Ş., Top S. M., Takva Ç., Gökgöz B. İ., İlterisoy Z. Y., Şahmaran M.
JOURNAL OF CONSTRUCTION ENGINEERING MANAGEMENT & INNOVATION, no.3, pp.229-246, 2024 (ESCI)
- III. **Comparative Analysis of Traditional and Modern Religious Buildings in Terms of Materials and Construction Techniques: The Turkish Mosques Cases**
Çakıcı F. Z., Takva Ç.
PERIODICA POLYTECHNICA. ARCHITECTURE, vol.55, no.2-3, pp.99-108, 2024 (Peer-Reviewed Journal)
- IV. **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)
- V. **Post-earthquake fires: risk assessment and precautions**
Gökşen F., Takva Ç., Takva Y., İlterisoy Z. Y.
MEHRAN UNIVERSITY RESEARCH: JOURNAL OF ENGINEERING AND TECHNOLOGY, vol.43, no.1, pp.1-16, 2024 (ESCI)
- VI. **Post-earthquake Disasters: A Systematic Review of the Classification and Evaluation of the Analysis Methods**
Takva Ç., Soyluk A., İlterisoy Z. Y.
GEOCONSERVATION RESEARCH, no.2, pp.427-449, 2023 (ESCI)
- VII. **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)
- VIII. **Digitalization of Building Site Management in the Construction Industry**
Takva Ç., Cudzik J., İlterisoy Z. Y.
INTERNATIONAL JOURNAL OF SUSTAINABLE CONSTRUCTION ENGINEERING AND TECHNOLOGY, vol.14, no.4, pp.171-193, 2023 (ESCI)
- IX. **Examination of Contemporary Additions Made with Adaptive Reuse of Historic Building Heritage**
Takva Y., Takva Ç., Gökşen F., İlterisoy Z. Y.
ONLINE JOURNAL OF ART AND DESIGN, vol.11, no.4, pp.124-136, 2023 (Peer-Reviewed Journal)
- X. **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)
- XI. **A Contemporary House Proposal: Structural Analysis of Wood and Steel Bungalows**
Takva Y., Takva Ç., Gökşen Takva F.

ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, vol.13, no.3, pp.11032-11035, 2023 (ESCI)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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

- I. **WOODEN HIGH-RISE BUILDINGS: EVALUATION OF LOAD-BEARING SYSTEM AND MATERIAL USE**
Takva Y., Takva Ç.
in: MİMARLIK ALANINDA ARAŞTIRMALAR VE DEĞERLENDİRMELER, PARLAK BİÇER ZÜBEYDE ÖZLEM,DAL MURAT, Editor, Gece Kitaplığı, Ankara, pp.71-90, 2024
- II. **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
- III. **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
- IV. **TESSELLATION CONFIGURATIONS TRANSFORMING FROM ART TO STRUCTURAL DESIGN OF GRIDSHELL STRUCTURES**
Takva Ç., Takva Y.
in: Research & Reviews in Architecture, Planning and Design, Gülbilin ÇETINKALE DEMİRKAN,Sertaç GÜNGÖR, Editor, Gece Kitaplığı, Ankara, pp.1-18, 2022
- V. **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,Büyükşahin Süheyla, Editor, Necmettin Erbakan Üniversitesi Yayınları, Konya, pp.505-522, 2022
- VI. **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

- VII. **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
- VIII. **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

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **THE ROLE OF 3D PRINTING TECHNOLOGY IN THE INDUSTRY 4.0 REVOLUTION: DEVELOPMENT IN THE CONTEXT OF SUSTAINABILITY**
Takva Ç., İlterisoy Z. Y.
3rd INTERNATIONAL CONFERENCE ON SUSTAINABLE CITIES AND URBAN LANDSCAPES (ICSULA 2024), Girne, Cyprus (Kktc), 13 - 14 December 2024, pp.388-411
- II. **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., İlterisoy 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
- III. **MODULAR SYSTEM APPLICATIONS IN HIGH-RISE BUILDINGS**
Takva Y., İlterisoy Z. Y., Takva Ç.
Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.399-409
- IV. **INVESTIGATION OF THE SHARD TOWER WITHIN THE SCOPE OF ADVANCED CONSTRUCTION TECHNIQUES**
Takva Ç., İlterisoy Z. Y., Takva Y.
Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.385-398

Metrics

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H-Index (Scopus): 2

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