

## Asst. Prof. BURAK YİĞİT KATANALP

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAM-1366-2021

ScopusID: 57217418656

Yoksis Researcher ID: 280880

### Education Information

Doctorate, Ege University, Turkey 2020 - 2023

Postgraduate, Adana Alparslan Türkeş Science And Technology University, Turkey 2018 - 2020

Undergraduate, Kocaeli University, Turkey 2009 - 2015

### Dissertations

Doctorate, Geopolimer katkılı bitüm ve bitümlü sıcak karışımların performans özelliklerinin Yaşam Döngüsü Değerlendirmesi destekli analizi, Ege University, 2023

Postgraduate, Kent içi yol segmentlerinde yaya-araç kazalarına etki eden faktörlerin coğrafi bilgi sistemleri tabanlı analizi: Adana örneği, Adana Alparslan Türkeş Science And Technology University, 2020

### Research Areas

Civil Engineering, Transportation Engineering

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

- I. **Recycling the electric arc furnace waste after geopolymerization in bitumen: experimental analyses and LCA study**  
Katalalp B. Y., Taştan M., Ahmedzade P.  
MATERIALS AND STRUCTURES/MATERIAUX ET CONSTRUCTIONS, vol.57, no.5, pp.103-127, 2024 (SCI-Expanded)
- II. **Rheological Evaluation and Life Cycle Cost Analysis of the Geopolymer Produced from Waste Ferrochrome Electric Arc Furnace Fume as a Composite Component in Bitumen Modification**  
Katalalp B. Y., Ahmedzade P.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.35, no.11, pp.4023401, 2023 (SCI-Expanded)
- III. **A posterior hybrid ML optimization to analyze the relationship between high temperature rheological factors of the Superpave PG and improved PG + asphalt specifications**  
Günay T., Katalalp B. Y., Taştan M., Ahmedzade P.  
CONSTRUCTION AND BUILDING MATERIALS, no.401, pp.1-12, 2023 (SCI-Expanded)

- IV. **An integrated solution to identify pedestrian-vehicle accident prone locations: GIS-based multicriteria decision approach**  
Yigit Katanalp B. Y., Eren E., Alver Y.  
JOURNAL OF TRANSPORTATION SAFETY AND SECURITY, vol.15, no.2, pp.137-176, 2023 (SSCI)
- V. **Exploring the effect of basalt fibers on maximum deviator stress and failure deformation of silty soils using ANN, SVM and FL supported by experimental data**  
Ndepete C. P., Sert S., Beycioglu A., Katanalp B. Y., Eren E., Bağrıaçık B., Topolinski S.  
ADVANCES IN ENGINEERING SOFTWARE, vol.172, 2022 (SCI-Expanded)
- VI. **Evaluating the Pedestrian Gap Acceptance in Semicontrolled Midblock Crosswalks with an Integrated AHP-FL Approach**  
Alver Y., Katanalp B. Y.  
JOURNAL OF TRANSPORTATION SAFETY AND SECURITY, vol.148, no.9, pp.1-15, 2022 (SSCI)
- VII. **Fuzzy-based GIS approach with new MCDM method for bike-sharing station site selection according to land-use types**  
Eren E., Katanalp B. Y.  
SUSTAINABLE CITIES AND SOCIETY, vol.76, pp.1-16, 2022 (SCI-Expanded)
- VIII. **GIS-based assessment of pedestrian-vehicle accidents in terms of safety with four different ML models**  
Katanalp B. Y., Eren E.  
JOURNAL OF TRANSPORTATION SAFETY AND SECURITY, vol.14, no.9, pp.1598-1632, 2021 (SSCI)
- IX. **The novel approaches to classify cyclist accident injury-severity: Hybrid fuzzy decision mechanisms**  
Katanalp B. Y., Eren E.  
ACCIDENT ANALYSIS AND PREVENTION, vol.14, no.9, pp.1598-1632, 2020 (SSCI)

### Articles Published in Other Journals

- I. **Atık Kömür Katkılı Asfalt Karışım Performans Karakteristiklerinin Yapay Sinir Ağları Ve Merkezi Kompozit Tasarım Yöntemleri Kullanılarak Karşılaştırılması**  
KATANALP B. Y., YILDIRIM Z. B., KARACASU M., İBRİKÇİ T.  
Mühendislik Bilimleri ve Tasarım, vol.7, no.3, 2019 (Peer-Reviewed Journal)
- II. **A DESIGN FOR PREVENTION OF VIOLATION OF DISABLED PARKING SPACES: DDPS (DETERRENT DISABLED PARKING SYSTEM)**  
KATANALP B. Y., NENNOGLU A. K., ÖZİNAL Y., YILDIRIM Z. B., EREN E.  
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.27, no.3, pp.242-251, 2019 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **The Effect of Ethylene Propylene Diene Monomer on the Rheological Properties of Bitumen**  
EREN E., KATANALP B. Y., TAŞTAN M., AHMEDZADE P., CANBAY TÜRKYILMAZ Ç., TÜRKYILMAZ E.  
17. International Conference on Advanced Pavement Materials for Sustainable Transportation Infrastructure, Balvi, Latvia, 06 July 2023
- II. **Impact of Fly Ash-Based Geopolymer Modification on the High-Temperature Properties of Bitumen**  
KATANALP B. Y., TAŞTAN M., AHMEDZADE P., CANBAY TÜRKYILMAZ Ç., TÜRKYILMAZ E.  
17. International Conference on Pavement Engineering, Analysis and Design, Singapore, 3 - 04 July 2023
- III. **A Literature Review on Design of Geometric Elements of The Roundabouts**  
ÖZİNAL Y., GÖKALP İ., KATANALP B. Y., UZ V. E.  
International Civil Engineering Architecture Conference, Trabzon, Turkey, 17 - 20 April 2019, vol.1, pp.2477-2485
- IV. **Deneysel Tasarım Yöntemlerinin Yol Üstyapı Uygulamalarında Kullanılabilirliğinin İncelenmesi**

YILDIRIM Z. B., EREN E., KATANALP B. Y., KARACASU M.

International Symposium on Innovative Approaches in Scientific Studies, ISAS 2018, Samsun, Turkey, 29 - 02 November 2018, vol.3, pp.1514-1519

**V. Akıllı Ulaşım Sistemleri Üzerine Bir Değerlendirme**

KATANALP B. Y., YILDIRIM Z. B., EREN E., UZ V. E.

International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 29 November - 02 December 2018, vol.3, pp.1503-1506

**VI. Türkiye'deki Bisiklet Paylaşım Programları**

EREN E., KATANALP B. Y., YILDIRIM Z. B., UZ V. E.

International Symposium on Innovative Approaches in Scientific Studies, ISAS, Samsun, Turkey, 30 November - 02 December 2018, vol.3, pp.1507-1513

## Supported Projects

Katanalp B. Y., Beycioğlu A., Şahmaran M., Purutçuoğlu Gazi V., Yazici Ş., Toros H., Emiroğlu M., Çalim F. F., Tanircan G., Berberoğlu S., et al., TUBITAK Project, Mühendislik Alanında Proje Eğitimi (TÜBİTAK 2237-B Proje Eğitimi Etkinliklerini Destekleme Programı), 2019 - 2019

## Metrics

Publication: 17