

## Res. Asst. BETÜL METE

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-3158-2018

ScopusID: 57219841941

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### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2020 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2018 - 2020

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2011 - 2016

### Dissertations

Postgraduate, Tersip bentlerinin askıda katı madde taşınımına etkilerinin incelenmesi: Sera deresi havzası (Trabzon) örneği, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2020

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - Continues

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

- Comparing Artificial Neural Networks and Regression-based Methods for Modeling Daily Dissolved Oxygen Concentration: A Study Based on Long-term Monitored Data**  
Nacar S., Mete B., Bayram A.  
KSCE JOURNAL OF CIVIL ENGINEERING, vol.28, no.8, pp.1-12, 2024 (SCI-Expanded)
- Effects of sediment-storage dams on suspended sediment transport in the Sera Lake Watershed, northeast Turkey**  
Mete B., Bayram A.  
Environmental Earth Sciences, vol.83, no.8, 2024 (SCI-Expanded)
- Deep learning-based total suspended solids concentration classification of stream water surface images captured by mobile phone**

Haciefendiođlu K., Baki O. T., Bařađa H. B., Mete B.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.195, no.12, 2023 (SCI-Expanded)

IV. **Estimation of daily dissolved oxygen concentration for river water quality using conventional regression analysis, multivariate adaptive regression splines, and TreeNet techniques**

Nacar S., Mete B., Bayram A.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.12, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Assessment of the Possible Effects of Climate Change on Seawater Temperatures: A Case Study for the Central Black Sea**  
Nacar S., Mete B., Tokgöz B. S., Bayram A.  
Uluslararası Mühendislik Arařtırma ve Geliřtirme Dergisi, vol.16, no.01, pp.279-289, 2024 (Peer-Reviewed Journal)
- II. **Estimation of Total Suspended Solids Concentration in Streams Using Regression and Artificial Neural Networks Methods**  
Mete B., Nacar S., Bayram A., Baki O. T.  
JOURNAL OF NATURAL HAZARDS AND ENVIRONMENT, vol.9, no.1, pp.125-135, 2023 (Peer-Reviewed Journal)
- III. **Monitoring and Assessing the Transport of Total Suspended Solids in The Sera Stream Watershed (Trabzon, Turkey)**  
Mete B., Baki O. T., Bayram A.  
Uludađ Üniversitesi Mühendislik Fakóltesi Dergisi, vol.27, no.1, pp.419-436, 2022 (Peer-Reviewed Journal)
- IV. **Monitoring and assessing of total suspended solids transport in the Deđirmendere, Yomra, and Galanima stream watersheds (Trabzon Province, NE Turkey)**  
METE B., BAKI O. T., BAYRAM A.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.12, pp.803-817, 2022 (Peer-Reviewed Journal)
- V. **Estimation of Daily Dissolved Oxygen Concentration using Multivariate Adaptive Regression Splines Methods**  
NACAR S., METE B., BAYRAM A.  
Uludađ Üniversitesi Mühendislik Fakóltesi Dergisi, vol.25, no.3, pp.1479-1498, 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Analysis of the Influencing Factors of Variation in Sediment Concentration in the Lower Deđirmendere Basin, Trabzon, Türkiye**  
BAKI O. T., METE B., YÜKSEK Ö.  
in: Lecture Notes in Civil Engineering, TÜRKER UMUT, EREN ÖZGÜR, UYGAR ERİŐ, Editor, Springer, pp.195-205, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Development of the Sediment Rating Curve in Galanima Basin, Trabzon, Türkiye**  
Baki O. T., Mete B., Yüksek Ö.  
International Civil Engineering and Architecture Congress , Trabzon, Turkey, 12 - 14 October 2023, vol.1, no.953, pp.621-628
- II. **Analysis of the Influencing Factors of Variation in Sediment Concentration in the Lower Deđirmendere Basin, Trabzon, Türkiye**  
Baki O. T., Mete B., Yüksek Ö.  
15th International Congress On Advances In Civil Engineering, Gazimagusa, Cyprus (Kktc), 6 - 08 September 2023,

vol.1, no.70, pp.39

- III. **Investigation of Possible Effects of Climate Change on Seawater Temperatures: A Case Study for Southern Black Sea (Giresun Province)**  
Nacar S., Tokgöz B. S., Mete B., Bayram A.  
Ulusal Hidrojeoloji ve Su Kaynakları Sempozyumu, Trabzon, Turkey, 25 - 27 May 2023, pp.13-20
- IV. **Standart Süreli Maksimum Yağış Yüksekliği Serilerinin Yenilikçi Yaklaşımlarla Eğilim Analizi: Marmara Bölgesi Örneği**  
AKÇAY F., METE B., KANKAL M., BAYRAM A.  
11. Ulusal Hidroloji Kongresi, Trabzon, Turkey, 13 October 2022
- V. **Sera Deresi Havzasında (Trabzon) Askıda Katı Madde Tahmini**  
METE B., NACAR S., BAYRAM A., BAKI O. T.  
11. Ulusal Hidroloji Kongresi, Trabzon, Turkey, 13 October 2022
- VI. **Estimation of Daily Dissolved Oxygen Concentration in the Clackamas River, Oregon, Using the Multivariate Adaptive Regression Splines**  
NACAR S., METE B., BAYRAM A.  
International The 1st Innovation, Sustainability, Technology and Education in Civil Engineering Conference, Hatay, Turkey, 13 June 2019, pp.517-526
- VII. **Estimation of Daily Dissolved Oxygen Concentration in the Broad River, South Carolina**  
NACAR S., METE B., BAYRAM A.  
International Civil Engineering and Architecture Conference (ICEARC'19)-2019, Trabzon, Turkey, 17 April 2019

## **Metrics**

Publication: 18

Citation (WoS): 11

Citation (Scopus): 13

H-Index (WoS): 1

H-Index (Scopus): 1