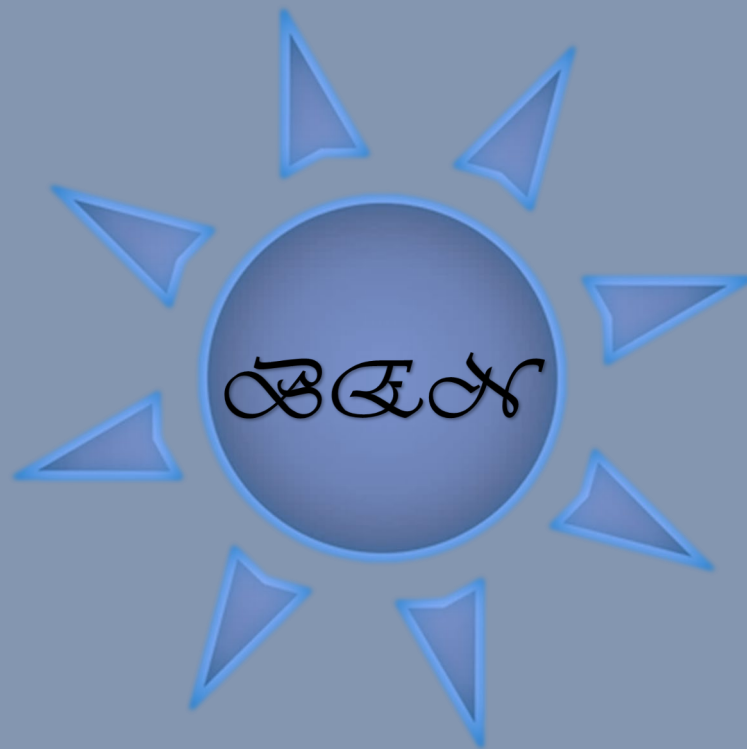


Volume: 5

Issue: 4

October 2024

ISSN: 2687-5195



# Brilliant Engineering

Editor: A.C. AYDIN

*HEAT*  
Publications

# Brilliant Engineering

Editor-in-Chief & Managing Editor

Abdulkadir Cüneyt AYDIN

E-mail: [acaydin@atauni.edu.tr](mailto:acaydin@atauni.edu.tr)

## Editorial Board

<b>Ali ALLAHVERDİ</b> Kuwait University, KUWAIT	<b>Ayhan ÇELİK</b> Ataturk University, TURKEY	<b>Ayman S. MOSALLAM</b> University of California, USA
<b>Ayşe YURTCAN BAYRAKÇEKEN</b> Ataturk University, TURKEY	<b>Bennaceur OUAKİ</b> ENSMR, MOROCCO	<b>Burak DİKİCİ</b> Ataturk University, TURKEY
<b>Burak ERKYAMAN</b> Ataturk University, TURKEY	<b>Ensar OĞUZ</b> Ataturk University, TURKEY	<b>Ergün YILDIZ</b> Ataturk University, TURKEY
<b>German DELAFUENTE</b> Zaragoza University, SPAIN	<b>Hikmet ALTUN</b> Ataturk University, TURKEY	<b>Hüseyin BİLGİN</b> EPOKA University, ALBANIA
<b>Hongze WANG</b> Shanghai Jiao Tong University, CHINA	<b>İhsan EFEOĞLU</b> Ataturk University, TURKEY	<b>Jian JIANG</b> China University of Mining and Technology, CHINA
<b>Jinyang XU</b> Shanghai Jiao Tong University, CHINA	<b>Kadir BİLEN</b> Ataturk University, TURKEY	<b>Kemal BEYEN</b> Kocaeli University, TURKEY
<b>Khalil EL-HAMI</b> University of Hassan, MOROCCO	<b>Mahmood KHALID</b> King Abdulaziz University, SAUDI ARABIA	<b>Mahmut FIRAT</b> Inonu University, TURKEY
<b>Marko SERAFIMOV</b> Methodius University, MACEDONIA	<b>Mehmet Emin AYDIN</b> University of the West England, UK	<b>Mehmet ERTUĞRUL</b> Ataturk University, TURKEY
<b>Mehmet İNAN</b> Oregon University, USA	<b>Mirsaeid Hosseini SHIRVANI</b> Sari Branch, Islamic Azad University, Sari, IRAN	<b>Mohd Nizar HAMIDON</b> Universiti Putra MALAYSIA
<b>Mojtaba B. SİRJANİ</b> Norfolk State University, USA	<b>Murat DAL</b> Munzur University, TURKEY	<b>Naimul HAQUE</b> East West University, BANGLADESH
<b>Omer ÇOMAKLI</b> Ataturk University, TURKEY	<b>Özgür ANIL</b> Gazi University, TURKEY	<b>Taner TEKİN</b> Ataturk University, TURKEY
<b>Togay ÖZBAKKALOĞLU</b> Texas State University, USA	<b>Vahid JAHANGIRI</b> University of Mohaghegh Ardabili, IRAN	<b>Vecihi YİĞİT</b> Ataturk University, TURKEY
<b>Yao YU</b> North Dakota State University, USA	<b>Yusuf ÖZTÜRK</b> San Diago State University, USA	

Brilliant Engineering is a quarterly published by ACA Publishing, as an international open access journal. Whole of the submitted papers are subjected to peer review process. The manuscripts with high quality original content will be published.

Copyright © ACA Publishing Online ISSN: 2687-5195

Publisher: Abdulkadir Cüneyt AYDIN <ACA Publishing>

Ataturk University, Engineering Faculty

Department of Civil Engineering

25030 Erzurum, TURKEY

## Contents

### Article ID

**Yusuf Demirel, Erdinç İbas**

Comparison of Classical and Voxel Model Analyses of the Gaziantep  
Hüseyin Paşa Mosque Observed During the February 2023 Earthquake

*Research Article*

**4961**

**Hafiz Ahmad, Wiley Vickers**

Impact of Natural Disasters on Flooding: An Assessment Using  
Satellite Data and Surface-Subsurface Modeling

*Research Article*

**4949**

**Abel Edeowede Abhulimen**

An Investigative Analysis on The Performance of The Nigerian  
Electricity Supply Industry (NESI)

*Research Article*

**4959**

**Ahmed Jimoh, Abubakar Yakubu, Bilyaminu Usman, Usman Shehu,  
Shuaibu Attahiru Nagogo**

Power Loss, Attenuation and Electric Field Intensity Determination Of  
PCL/Rice Husk Using Numerical Technique for Microwave Application

*Research Article*

**4967**

**Saad Issa Sarsam**

Modeling the Influence of Additives on Deterioration of the Creep  
Stiffness of Asphalt Binder

*Research Article*

**4973**