

## Dr. Öğr. Üyesi AYBALA YILDIRIM

### Kişisel Bilgiler

**E-posta:** aybala.usta@marmara.edu.tr

**Web:** <https://avesis.marmara.edu.tr/14798>

**Posta Adresi:** Marmara Üniversitesi Recep Tayyip Erdoğan Külliyesi Aydınevler Mah. 34854 Maltepe/ İstanbul

### Uluslararası Araştırmacı ID'leri

ScholarID: CnvvcccAAAAJ

ORCID: 0000-0002-6895-3540

Publons / Web Of Science ResearcherID: JDV-9294-2023

Yoksis Araştırmacı ID: 369395

### Biyografi

Dr. Aybala USTA YILDIRIM graduated from Sakarya University in 2011 with a Bachelor`s degree in Metallurgical and Materials Engineering. She received her Master degree in 2014 in Mechanical Engineering at Wichita State Univeristy in Kansas, USA. At the same university, she pursued her PhD and graduated in 2018 with a major in Mechanical Engineering specializing in Materials Science Engineering and minoring in Industrial Engineering with Statistical Methods and Design of Experiment. During her Master`s and PhD, she worked as research assistant and teaching assistant lecturing numerous courses in the Mechanical Engineering Department. After coming back to Turkey, she worked as Research and Development Engineer in a private corporation in Ankara for 2 years. She currently works at Marmara University as Assistant Professor at Mechanical Engineering Department.

### Eğitim Bilgileri

Doktora, Wichita State University, Mühendislik Fakültesi, Makine Mühendisliği, Amerika Birleşik Devletleri 2015 - 2018  
Yüksek Lisans, Wichita State University, Mühendislik Fakültesi, Makine Mühendisliği, Amerika Birleşik Devletleri 2013 - 2014

Lisans, Sakarya Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Türkiye 2009 - 2011

### Yabancı Diller

İngilizce, C2 Ustalık

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2022 - Devam Ediyor  
Öğretim Görevlisi, Wichita State University, 2015 - 2018

Araştırma Görevlisi, Wichita State University, 2013 - 2014

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigating MTX-Loaded magnetic nanocomposite particles for treatment of rheumatoid arthritis**  
Usta A., Man K. P., Strong N., Misak H., Wooley P. H., Asmatulu R.  
Journal of Magnetism and Magnetic Materials, cilt.499, 2020 (SCI-Expanded)
- II. **Deicing and self-cleaning of plasma-treated superhydrophobic coatings on the surface of aluminum alloy sheets**  
Subeshan B., Usta A., Asmatulu R.  
Surfaces and Interfaces, cilt.18, 2020 (SCI-Expanded)
- III. **Polyurethane nanocomposite coating with silanized graphene and hexagonal boron nitride as nanoadditives for improved resistance against ultraviolet degradation**  
Tran T. V., Abedin F., Usta A., Asmatulu R.  
Journal of Composite Materials, cilt.53, sa.10, ss.1387-1399, 2019 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **STUDYING THE ELECTROCHEMICAL BEHAVIORS OF ANODIZED METALLIC IMPLANTS FOR IMPROVED CORROSION RESISTANCE**  
MURAD M. S., USTA A., ASMATULU R., CEYLAN M.  
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, cilt.21, sa.41, ss.117-135, 2022 (Hakemli Dergi)
- II. **Synthesis and evaluation of electrospun PCL-plasmid DNA nanofibers for post cancer treatments**  
Ceylan M., Asmatulu R., Jiang J., USTA A., Jia T., Yao L., Yang S.  
Materials Today: Proceedings, cilt.71, ss.58-63, 2022 (Scopus)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Investigating effects of graphene nanoinclusions for improved desalination rates of salt water under solar heat**  
Patil V., Usta A., Rahman M. M., Asmatulu R.  
ASME 2018 International Mechanical Engineering Congress and Exposition, IMECE 2018, Pennsylvania, Amerika Birleşik Devletleri, 9 - 15 Kasım 2018, cilt.12
- II. **Synthesis, stability and selection study of oil-in-water nanoemulsions containing nigella sativa L. essential oil**  
Usta A., Rahman M., Asmatulu R.  
ASME 2017 International Mechanical Engineering Congress and Exposition, IMECE 2017, Florida, Amerika Birleşik Devletleri, 3 - 09 Kasım 2017, cilt.14
- III. **Encapsulation of natural ingredient for skin protection via nanoemulsion process**  
Asmatulu E., Usta A., Alzahrani N., Patil V., Vanderwall A.  
Nanosensors, Biosensors, Info-Tech Sensors and 3D Systems 2017, Oregon, Amerika Birleşik Devletleri, 26 - 29 Mart 2017, cilt.10167
- IV. **Functionalized hexagonal boron nitride nanocoatings for protection of transparent plastics**  
Van Tran T., Usta A., Asmatulu R.  
Active and Passive Smart Structures and Integrated Systems 2016, Nevada, Amerika Birleşik Devletleri, 21 - 24 Mart 2016, cilt.9799
- V. **Synthesis and analysis of electrically sensitive hydrogels for advanced drug delivery systems**  
Usta A., Asmatulu R.  
ASME 2015 International Mechanical Engineering Congress and Exposition, IMECE 2015, Texas, Amerika Birleşik Devletleri, 13 - 19 Kasım 2015, cilt.3-2015
- VI. **Preparation and characterization of drug-loaded thermosensitive hydrogels**

Saeednia L., Usta A., Asmatulu R.

ASME 2013 International Mechanical Engineering Congress and Exposition, IMECE 2013, San Diego, CA, Amerika Birleşik Devletleri, 15 - 21 Kasım 2013, cilt.3 B

## **Metrikler**

Yayın: 12

Atıf (Scopus): 73

H-İndeks (Scopus): 4