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### Education Information

Postgraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, Turkey 2016 - 2019

Postgraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, Turkey 2016 - 2018

Undergraduate Double Major, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, Turkey 2010 - 2013

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, Turkey 2007 - 2012

### Dissertations

Postgraduate, Çörek Otu Yağı Katkılı Nanokompozit Poliüretan Nanolifli Yüzey Üretimi, Karakterizasyonu Ve Yara Örtüsü Olarak Kullanım Performansının Araştırılması, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2019

### Research Areas

Textile Engineering and Technology, Textile Materials, Technical Textiles

### Academic Titles / Tasks

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2018 - Continues

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

- Evaluation of Nigella sativa oil loaded electrospun polyurethane nanofibrous mat as wound dressing**  
Aras C., Ozer E., Göktalay G., Saat G., Karaca E.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.32, pp.1718-1735, 2021 (SCI-Expanded)

### Articles Published in Other Journals

- SİVRİSİNEK KOVUCU TEKSTİL MALZEMELERİ ÜZERİNE BİR DERLEME**  
Çelen R., Kanmaz D., Aras C., Yıldız S., Tiritöğlü M., Düzyer Gebizli Ş., Koral Koç S., Karaca E.

TEKSTİL VE MUHENDİS, vol.30, no.132, pp.351-367, 2023 (Peer-Reviewed Journal)

II. **Cerrahi Alanda Kullanılan Bir Biyomalzeme: Fıtık Meshi**

Aras C., Işık Ö., Ömeroğlu S., Özalp R. G., Osman B., Karaca E.

TEKSTİL VE MUHENDİS, vol.30, no.129, pp.71-84, 2023 (Scopus)

III. **INVESTIGATION OF THE EFFECTS OF SOME PROCESS PARAMETERS ON THE MORPHOLOGICAL PROPERTIES OF POLYURETHANE NANOFIBROUS MATS CONTAINING BLACK SEED OIL**

Aras C., Düzyer Gebizli Ş., Tümay Özer E., Karaca E.

Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.24, no.2, pp.671-684, 2019 (Peer-Reviewed Journal)

IV. **Standard Work Study in Physical Logistics Area: An Application of Automotive Equipment Manufacturer**

Özkardeş Ç., Erklıç S., Şeker C., Aras C., Aksoy A., Öztürk N.

International Journal of Engineering Research, vol.2, no.5, pp.310-315, 2013 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **Optimizing the Solution and Process Parameters of Electrospun Thermoplastic Polyurethane Tyme Oil Nanofibers**

Gilan B., ARAS GÜL C., DÜZYER GEBİZLİ Ş., KARACA E.

7th International Ankara Multidisciplinary Studies Congress, Ankara, Turkey, 05 March 2024

II. **ELECTROSPUN NANOFIBER MESH FOR PELVIC ORGAN PROLAPSE**

Aras Gül C., Karaca E., Vatan Ö., Coşkun B.

4th. INTERNATIONAL ANTALYA SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES, Antalya, Turkey, 9 - 10 May 2023, pp.1-2

III. **Investigation of the Adhesion Performance of Nanofiber Surfaces to Knitted Fabrics made from Polyester Filaments With Different Cross-Sections**

Yılmaz S., Dönmez S., ARAS C., KARACA E.

1st International Conference on Innovative Academic Studies, Konya, Turkey, 10 September 2022

IV. **NANOFIBROUS MAT PRODUCTION FROM SILK FIBROIN SOLUTION PREPARED IN A ONESTEP**

Özdemir T., Aras Gül C., Karaca E.

14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Sivas, Turkey, 18 - 19 July 2022, pp.2-7

V. **A Sustainable Approach to Development Fiber Reinforced Polymer Composites as Honeycomb Core Structure**

Torbali M. S., Aras C., Korkmaz B., Karaca E., Yazıcı M.

2nd. INTERNATIONAL GRADUATE STUDIES CONGRESS (IGSCONG'22), İstanbul, Turkey, 8 - 11 June 2022, vol.1, pp.717-718

VI. **Investigation of the Release of Growth Factors from Nanofiber Mat Loaded with Apheresis Platelet Concentrate (APC)**

Yılmaz H., Aras C., Karaçay M., Altuntuğ Cesur M. İ., Karaca E., Temel Ş. G., Bülbül Başkan E., Oral H. B., Kaya E.

International Congress on Biological and Health Sciences, Afyonkarahisar, Turkey, 26 February 2022

VII. **Investigation of Acoustic Properties of Low Density Polyethylene Composite Foam**

ARAS C., YAZICI M., KARACA E.

8th International Fiber and Polymer Research Symposium, Eskişehir, Turkey, 18 June 2021

VIII. **In Vitro Controlled Release and Cytotoxicity Test of Nigella Sativa Oil Loaded Polyurethane Nanofiber Mat: As Using Potential Wound Dressing**

Aras C., Karaca E., Tümay Özer E.

1ST INTERNATIONAL CONFERENCE ON PREVENTIVE MEDICINE (1ST ICPM 2019), Antalya, Turkey, 12 - 14 November 2019

IX. **Production and Characterization of Black Seed Oil Loaded Antibacterial Electrospun Polyurethane Nanofibrous Mats**

Aras C., Tümay Özer E., Karaca E.

5th International Fiber and Polymer Research Symposium, 03 May 2019, pp.23-26

## Supported Projects

KARACA E., OSMAN B., IŞIK Ö., ÖZALP R. G., ARAS C., ÖMEROĞLU S., ARI F., Project Supported by Higher Education Institutions, Fıtık Oluşumunu ve Cerrahi Adezyonu Önleyici Yerli Kompozit Mesh Tasarımı Üretimi ve Karakterizasyonu, 2023 - Continues

KARACA E., YILDIZ S., DÜZYER GEBİZLİ Ş., ÇELEN R., ARAS C., TİRİTOĞLU M., KANMAZ D., KORAL KOÇ S., MANASOĞLU G., Project Supported by Higher Education Institutions, Sitronella Yağı Esaslı Mikrokapsüller İçeren Sivrisinek Kovucu Poliüretan Nanolifli Yüzey Üretimi ve Karakterizasyonu, 2023 - Continues

KARACA E., ARAS C., ÖZDEMİR T., VATAN Ö., COŞKUN B., Project Supported by Higher Education Institutions, Pelvik Taban Bozukluklarında Kullanılmak Üzere Nanolifli Mesh Tasarımı Üretimi ve Karakterizasyonu, 2022 - 2023

KAYA E., LEBLEBİCİOĞLU H., ARAS C., KARAÇAY M., ALTUNTUĞ CESUR M. İ., Project Supported by Higher Education Institutions, Aferez Trombosit Konsantresi (ATK) Katkılı Nanolifli Yüzeyden Büyüme Faktörlerinin Salımının İncelenmesi, 2021 - 2022

## Patent

Karaca E., Tümay Özer E., Aras C., Ltd. Şti I., NANOLİFLİ YARA ÖRTÜSÜ , Patent, CHAPTER D Textile; Paper, The Invention Recourse Number: 2020/22711 , Standard Registration, 2021

Karaca E., Aras C., Tümay Özer E., NANOFIBROUS WOUND DRESSING, Patent, CHAPTER D Textile; Paper, The Invention Recourse Number: PCT/TR2019/051266 , Standard Registration, 2019

## Metrics

Publication: 15

Citation (WoS): 12

Citation (Scopus): 16

H-Index (WoS): 1

H-Index (Scopus): 1