

## Asst. Prof. İDİL YİĞİT

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JCE-9094-2023

ScopusID: 57200751463

Yoksis Researcher ID: 28584

### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, textile technology, Turkey 2010 - 2017

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, AŞINDIRMA BASKIDA OZON KULLANIMI, 2017

Postgraduate, Yuvarlak örme makinelerinde ince ve süper ince kumaş üretiminin incelenmesi, 2010

### Research Areas

Textile Engineering and Technology, Textile Machinery, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, Orhaneli Myo, Tekstil, Giyim, Ayakkabı Ve Deri, 2022 - Continues

Lecturer PhD, Bursa Uludağ University, Orhaneli Myo, 2021 - 2022

Lecturer, Istanbul Kavram Vocational College Of Higher Education, İstanbul Kavram Vocational School, Department Of Design, 2013 - 2018

### Academic and Administrative Experience

Assistant Director of Vocational School, Bursa Uludağ University, Orhaneli Myo, Tekstil, Giyim, Ayakkabı Ve Deri, 2023 - Continues

University Executive Board Member, Bursa Uludağ University, Orhaneli Myo, Tekstil, Giyim, Ayakkabı Ve Deri, 2023 - Continues

College Board Member, Bursa Uludağ University, Orhaneli Myo, Tekstil, Giyim, Ayakkabı Ve Deri, 2022 - Continues  
Member of Unit Quality Commission, Bursa Uludağ University, Orhaneli Myo, 2022 - Continues  
Head of Department, Bursa Uludağ University, ORHANELİ MYO, 2022 - Continues

## Courses

### Postgraduate

Tekstil Yüzeyleri için Yenilikçi Prosesler, Postgraduate, 2023 - 2024

### Undergraduate

İş Sağlığı ve Güvenliği II, Undergraduate, 2023 - 2024

### Associate Degree

Boyama Teknolojisi ve Makinaları, Associate Degree, 2023 - 2024

Boyama Teknolojisi ve Makinaları, Associate Degree, 2023 - 2024

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

- I. **The application of  $scCO_2$  medium in cellulosic fibers: a sustainable approach in textile production**  
YİĞİT İ., Ozenc A. A., EREN S.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, 2025 (SCI-Expanded)
- II. **Prediction of colour strength in environmentally-friendly dyeing of polyester fabric with madder using supercritical carbon dioxide**  
Haji A., Vadood M., ÖZTÜRK M., YİĞİT İ., EREN S., EREN H. A.  
Coloration Technology, vol.141, no.1, pp.44-53, 2025 (SCI-Expanded)
- III. **A New Sight of Ozone Usage in Textile: Improving Flame Retardant Properties**  
EREN S., YİĞİT İ., Kutlay K., Kaya Z., Basrık C., EREN H. A.  
Polymers, vol.16, no.6, 2024 (SCI-Expanded)
- IV. **Waterless dyeing of polytrimethylene terephthalate and polybutylene terephthalate fabrics via supercritical carbon dioxide**  
Eren S., Ozcan I., Yiğit İ., Eren H. A.  
Journal of Supercritical Fluids, vol.201, 2023 (SCI-Expanded)
- V. **Comparison of the colour fading effects of sodium hypochlorite and ozone treatments**  
Yigit İ., EREN S., Karali R., Yibar M. F., EREN H. A.  
COLORATION TECHNOLOGY, vol.137, no.6, pp.615-624, 2021 (SCI-Expanded)
- VI. **An investigation of process parameters on colour during the dyeing of polyester in supercritical carbon dioxide media**  
Yigit İ., EREN S., Ozcan H., Avinc O., EREN H. A.  
COLORATION TECHNOLOGY, vol.137, no.6, pp.625-644, 2021 (SCI-Expanded)
- VII. **Ozone utilisation for discharge printing of reactive dyed cotton**  
Yigit İ., EREN S., EREN H. A.  
COLORATION TECHNOLOGY, vol.134, no.1, pp.13-23, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The effect of surface modification with ozone in waterless ( $ScCO_2$ ) dyeing of polyester**  
EREN S., Öztürk M., YİĞİT İ.  
Journal of innovative engineering and natural science (Online), no.4, pp.314-325, 2024 (Peer-Reviewed Journal)
- II. **SÜPERKRİTİK VE KLASİK ORTAMDA POLİESTER BOYAMANIN YAŞAM DÖNGÜSÜ ANALİZİ İLE**

## DEĞERLENDİRİLMESİ

EREN S., Karadağ N., YİĞİT İ., EREN H. A.

Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.27, no.3, pp.927-940, 2022 (Peer-Reviewed Journal)

- III. **Antibacterial Nonwoven with Propolis for Use in Surgical Masks**  
Yiğit İ.  
MATERIALS SCIENCE FORUM, vol.1063, pp.63-69, 2022 (Scopus)
- IV. **Ozon Gazı İle Aşındırmanın Farklı Yapıdaki Örme Kumaşların Fiziksel Özelliklerine Etkileri**  
EREN S., Özden C. B., Durgunlu S., YİĞİT İ., EREN H. A.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE TASARIM DERGİSİ, vol.2, no.2, pp.1-14, 2021 (Peer-Reviewed Journal)
- V. **Boyama Atık Suyunun Ozonlanarak Boyamada Tekrar Kullanılması**  
YİĞİT İ., EREN S., EREN H. A.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE TASARIM DERGİSİ, 2021 (Peer-Reviewed Journal)
- VI. **Polyesterin disperse blue 79 ile klasik ve susuz boyanmasının karşılaştırılması**  
EREN S., YİĞİT İ., EREN H. A.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, pp.661-670, 2019 (Peer-Reviewed Journal)
- VII. **Ozone Bleaching of Woven Cotton Fabric**  
EREN S., Yetisir İ.  
Pamukkale University Journal of Engineering Sciences, vol.24, 2018 (Peer-Reviewed Journal)
- VIII. **HAŞIL SÖKME İŞLEMİNE ALTERNATİF BİR METOT; OZON UYGULAMASI**  
Yetisir İ., Eren S.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.22, no.1, pp.139, 2017 (Peer-Reviewed Journal)

## Books

- I. **Sustainable Textile Processing with Zero Water Utilization Using Super Critical Carbon Dioxide Technology**  
Yiğit İ.  
in: Sustainability in the Textile and Apparel Industries, Muthu,S.,Gardetti,M. (eds), Editor, Springer Nature, Chur, pp.179-196, 2020
- II. **Ozone: An Alternative Oxidant for Textile Applications**  
Yiğit İ.  
in: Sustainability in the Textile and Apparel Industries, Muthu,S.,Gardetti,M. (eds), Editor, Springer Nature, Chur, pp.81-98, 2020

## Papers Published in Refereed Scientific Meetings

- I. **"SURFACE TREATMENT OF HEMP MATERIALS",**  
YİĞİT İ., EREN S., akarsu özenç a., Saka Z.  
AUTEX 2024 17 - 19 June 2024, Liberec, Liberec, Czech Republic, 17 - 19 June 2024
- II. **Ozonlanmış UHMWPE Liflerin Yüzey Modifikasyonu**  
YİĞİT İ., EREN S., Saka Z., ARAL YILMAZ N., ÖZ Y.  
3 rd International Conference on Frontiers in Academic Research June 15-16, 2024 : Konya, Turkey, 15 - 16 June 2024
- III. **EFFECT OF UV TREATMENT ON HYDROPHILICITY AND WHITENESS PROPERTIES OF HEMP FABRICS**  
EREN S., YİĞİT İ., MECİR B., AVİNÇ O. O.  
International Textile & Fashion Congress | ITFC 2023, 16 March 2023
- IV. **Effect of UV Treatment on Hydrophilicity and Whiteness Properties of Hemp Fabrics**  
EREN S., YİĞİT İ., Mecir B., AVİNÇ O. O.  
ITFC2023 International Textile and Fashion Congress, İstanbul, Turkey, 16 March 2023

- V. **Kenevir/Pamuk Karışımli Kumaşların UV Destekli Hidrofilleştirilmesi**  
EREN S., Mecir B., YİĞİT İ., AVİNÇ O. O.  
4th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 November 2022, pp.1286-1288
- VI. **ANTIBACTERIAL NONWOVEN WITH PROPOLIS FOR USE IN SURGICAL MASKS**  
ARAL YILMAZ N., YİĞİT İ.  
AUTEX, Lisbon, Portugal, 5 - 09 September 2021
- VII. **BETA-SİKLODEKSTRİNİN TEKSTİL ENDÜSTRİSİNDE KULLANIM ALANLARI**  
Özkan Yüksel F., YİĞİT İ., EREN S., EREN H. A., AVİNÇ O. O.  
9. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 12 December 2020
- VIII. **Lyocell Liflerindeki Fibrilleşmenin Ultrasonik Yöntem Desteği İle Kontrolü**  
Elgün B., YİĞİT İ., Gül Demir H., EREN S., EREN H. A.  
2.Hezarfen Uluslararası Fen Matemaik ve Mühendislik Bilimleri Kongresi, Antalya, Turkey, 25 September 2020
- IX. **Environmental Evaluation of Waterless Dyeing**  
YİĞİT İ., EREN S., EREN H. A.  
17. NATIONAL 3rd INTERNATIONAL THE RECENT PROGRESS SYMPOSIUM ON TEXTILE TECHNOLOGY AND CHEMISTRY, Bursa, Turkey, 20 November 2019, pp.61-64
- X. **Ozon Gazı ile Rengin Sökülmesi**  
YİĞİT İ., EREN S., EREN H. A.  
4. Uluslararası Bilimsel Araştırmalar Kongresi - Fen ve Mühendislik, Yalova, Turkey, 14 February 2019, pp.527
- XI. **WATERLESS DYEING OF POLYESTER**  
EREN S., ÖZCAN H., YİĞİT İ., AVİNÇ O. O., EREN H. A.  
4. Uluslararası Bilimsel Araştırmalar Kongresi - Fen ve Mühendislik, Yalova, Turkey, 14 February 2019, pp.521
- XII. **Pamuklu Kumaşlara Ozon ile Aşındırma Baskı Yapan Sistem Tasarımı**  
YİĞİT İ., EREN S., EREN H. A.  
3. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 08 March 2018, pp.71-73
- XIII. **Decolorisation of Disperse Dark Blue 148 with Ozone**  
EREN S., YİĞİT İ., EREN H. A.  
AUTEX CONFERENCE 2017, Korfu, Greece, 29 - 31 May 2017, pp.50
- XIV. **Hidrojen Peroksit ve Ultraviyole Işık Kullanımıyla C.I. Reactive Red 239 Çözeltilisinin Dekolorizasyonu**  
EREN S., YİĞİT İ., EREN H. A.  
16. ULUSLARARASI TEKSTİL TEKNOLOJİSİ VE KİMYASINDAKİ SON GELİŞMELER SEMPOZYUMU, Bursa, Turkey, 4 - 06 May 2017
- XV. **YENİLİKÇİ, ÇEVRECİ, SÜRDÜRÜLEBİLİR BİR YÖNTEM: OZON GAZI İLE AŞINDIRMA BASKI**  
EREN S., YİĞİT İ.  
ULUDAĞ ÜNİVERSİTESİ VI BİLGİLENDİRME VE AR-GE GÜNLERİ, Turkey, 15 - 16 March 2017
- XVI. **OZONE CLEARING OF DISPERSE BLUE 56 60 AND 79 DYES ON DYED POLYESTER**  
EREN H. A., EREN S., YİĞİT İ.  
16th World Textile Conference AUTEX 2016, 8 - 10 June 2016
- XVII. **New Generation Discharge Printing Machine Printing By Ozone**  
EREN S., EREN H. A., YİĞİT İ.  
Türkiye Tekstil ve Konfeksiyon Sektörü VIII. Uluslararası Ar-Ge Proje Pazarı Zirvesi, Bursa, Turkey, 12 - 13 May 2016
- XVIII. **Decolorisation of CI Reactive Red 195 By Ultrasound Assisted Fenton Process**  
EREN H. A., EREN S., YİĞİT İ.  
ITU- 5 th International Istanbul Textile Congress, 11 - 12 September 2015
- XIX. **Rapid Color Removal Of CI Reactive Blue 222 With Ozone and Ultrasonic Homogenizer**  
EREN S., EREN H. A., YİĞİT İ.  
15 th AUTEX World Textile Conference 2015, 10 - 12 June 2015
- XX. **Yenilikçi Terbiye Yöntemlerinin Pamuk Yün ve Polyester Lifleri Üzerine Etkileri**  
EREN H. A., YİĞİT İ.

IV. Bilgilendirme ve AR-GE Günleri- ULUDAĞ ÜNİVERSİTESİ, Turkey, 11 - 13 November 2014

**XXI. Süper İnce Örme Kumaşlar**

YİĞİT İ., KAVUŞTURAN Y.

Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu, Bursa, Turkey, 06 May 2009 - 08 March 2014, pp.134-140

**XXII. Fine And Super Fine Knitted Technical Fabrics Poster Presentation**

YİĞİT İ., KAVUŞTURAN Y.

IV. Technical Textile Sempozyum, DEÜ, İSYANBUL, Turkey, 16 May - 18 February 2010, pp.103

**XXIII. Süper İnce Örme Kumaşların Temiz Odalarda Kullanımı**

KAVUŞTURAN Y., YİĞİT İ.

II. Arge Proje Pazarı, Poster Sunumu,UİB, Bursa, Turkey, 18 - 20 February 2010, pp.157-158

## Supported Projects

Eren S., Yiğit İ., Eren H. A., TUBITAK Project, OZON GAZI İLE ÇALIŞAN AŞINDIRMA BASKI MAKİNESİ TASARIMI VE İMALATI, 2020 - 2023

## Patent

Yiğit İ., Eren H. A., Eren S., Aydın E., OZON NOZULÜ İLE ÇALIŞAN BASKI MAKİNASI SİSTEMİ VE YÖNTEMİ , Patent, CHAPTER D Textile; Paper, The Invention Recourse Number: 2022/012780 , Standard Registration, 2022

## Peer Reviews in Scientific Publications

COLORATION TECHNOLOGY, SCI Journal, October 2024

TEKSTILEC, SCI Journal, April 2023

## Metrics

Publication: 42

Citation (WoS): 31

Citation (Scopus): 33

H-Index (WoS): 4

H-Index (Scopus): 4