

## Prof. BURCU YILMAZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-4064-2019

ScopusID: 37006189600

Yoksis Researcher ID: 55776

### Education Information

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Tekstil Mühendisliği, Turkey 2020 - 2022

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Tekstil Eğitimi (Dr), Turkey 2004 - 2010

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Tekstil Eğitimi (YI) (Tezli), Turkey 2002 - 2004

Undergraduate, Marmara University, Faculty of Technical Education, Textile Education, Turkey 1997 - 2001

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Selülozik Elyaf İçeren Materyallerin Çevre Dostu Yöntemlerle Boyanması, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Tekstil Eğitimi (Dr), 2010

Postgraduate, Selülozik Materyallerin Tek Banyoda Kombine Proses İle Boyanmasında Optimizasyon, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Tekstil Eğitimi (YI) (Tezli), 2004

### Research Areas

Textile Engineering and Technology, Engineering and Technology

### Academic Titles / Tasks

Professor, Marmara University, Faculty of Technology, Textile Engineering, 2020 - Continues

Associate Professor, Marmara University, Faculty of Technology, Textile Engineering, 2015 - 2020

Associate Professor, Marmara University, Faculty of Technical Education, Textile Education, 2013 - 2015

Research Assistant PhD, Marmara University, Faculty of Technical Education, Textile Education, 2010 - 2013

Research Assistant, Marmara University, Faculty of Technical Education, Textile Education, 2002 - 2010

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Marmara University, Faculty of Technical Education, Textile Education, 2013 - 2015

Marmara University, Faculty of Technical Education, 2013 - 2015

Marmara University, Faculty of Technical Education, Textile Education, 2010 - 2013

## Articles Published in Other Journals

### I. Effect of UV Absorbers On Cotton Fabrics

Merdan N., Koçak E. D., Yılmaz Şahinbaşkan B., Yüksek M.

Advances in Environmental Biology, vol.6, pp.2151-2157, 2012 (Peer-Reviewed Journal)

## Books

### I. Sound Absorption Performance of Okra (*Abelmoschus esculentus* L.) Waste Fibers

KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B., Ardıç B., İzgi A. A.

Lambert Academic Publishing, 2018

### II. .

KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B.

LAP LAMBERT Academic Publishing, 2018

### III. Fiber Extraction from Okra Plant Agricultural Wastes, Their Characterizations and Surface Modifications by Environmental Methods

KOÇAK E. D., MERDAN N., MISTIK S. İ., YILMAZ ŞAHİNBAŞKAN B.

in: Sustainable Innovations in Textile Fibres, Subramanian Senthilkannan Muthu, Editor, Springer, Singapore, pp.53-80, 2018

### IV. Sustainable Nonwoven Products From Raising Wastes For Automotive Industry

Erdal S., Akay D., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B.

in: Current Academic Studies in Engineering Sciences, Serdar Salman, Rıdvan Karapınar, Duygu Kavak, Ali Kılıçer, Editor, Gece Kitaplığı, pp.1479-1490, 2018

### V. Colour Fastness Standard Test Methods For Textiles

YILMAZ ŞAHİNBAŞKAN B.

in: Research on Science and Art in 21 st Century Turkey, Arapgirlioglu H, Atık A, Elliott R.L, Turgeon E, Editor, Gece Publishing, Ankara, pp.2202-2208, 2017

### VI. Application of Enzymes in Synthetic Textile Fibers

YILMAZ ŞAHİNBAŞKAN B.

in: Researchs on Science and Art in 21 st Century Turkey, Arapkirlioglu H, Atık A, Elliot R.L, Turgeon E, Editor, Gece Publishing, Ankara, pp.2717-2721, 2017

## Papers Published in Refereed Scientific Meetings

### I. Poliester Kumaşlarda Doğal Kaya Tuzu Kullanımının Yüzey Özdirenci Üzerindeki Etkisinin İncelenmesi (Effect of Using Natural Rock Salt on Polyester Fabrics's Surface Resistivity)

DÜLEK Y., Yıldırım İ., Sevinç B., Mert E., YILMAZ B., KUT Y. D.

5. Ulusal Çukurova Tekstil Kongresi (UÇTEK 2024), Turkey, 27 September 2024

### II. Zamansız Pötikare Kumaş Tasarımları (Timeless Gingham Fabric Designs)

KAYA V., UCA L., ŞAHİN A., ÇIKAR R., YILMAZ B.

5. Ulusal Çukurova Tekstil Kongresi (UÇTEK 2024), Turkey, 26 September 2024

### III. A New Approach in Non-Denim: Sustainable Dyed Design

- Özdemir E., ÖZÜT E., YILMAZ B.  
2nd International Congress of Art and Social Sciences, Antalya, Turkey, 27 October 2024
- IV. **Modern Woven Fabric Designs For The Preservation of Tokat Block Printed Scarf Motif Heritage**  
ÇIRAK R., KAYA V., SEVİNÇ A., ŞAHİN A., YILMAZ B.  
2nd International Congress of Art and Social Sciences, Antalya, Turkey, 27 October 2024
- V. **Original Woven Fabric Designs Inspired by Sumerian Historical Images**  
ÇIRAK R., ŞAHİN A., SEVİNÇ A., KAYA V., YILMAZ B.  
13th International Congress on Engineering, Architecture and Design, 06 September 2024
- VI. **Reuse Possibilities of Reactive Dyeing Wastewater in The Dyeing Process**  
DUMAN B., AYDIN E., YILMAZ B.  
4th International Congress on Engineering and Sciences, Turkey, 27 July 2024
- VII. **The Place, Importance of Denim in Fashion History and Contemporary Applications For Its Spreading**  
GÜLTEKİN E., YAKUT G., ZADEOĞULLARI N., BAL G., KÖSE L., YILMAZ B.  
13th International Congress on Engineering, Architecture and Design, Turkey, 09 June 2024
- VIII. **Poliester/Pamuk Karışımı Kumaşların Ağartma Banyolarında Boyanma Özelliklerinin İncelenmesi**  
Girgin H., YORULMAZ T., YILMAZ B.  
11. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, Turkey, 16 March 2024
- IX. **Pamuk İpliklerin Boyama Prosesinde İndantren Boyarmaddelerin Kullanımı**  
Taylan S., Kayabaş S., Yılmaz G., Yorulmaz T., YILMAZ B.  
33. Ulusal Kimya Kongresi, Tekirdağ, Turkey, 07 October 2021
- X. **Electromagnetic Shielding Effectiveness and Tensile Strength Performance of Carbon Nano Tube Additives in Paper Making**  
ÖZDEN Ö., YILMAZ ŞAHİNBAŞKAN B., YILDIZ Z.  
NANOTR15, 3 - 06 November 2019, pp.28
- XI. **Microwave-assisted Enzymatic Treatments of Cotton Knits**  
YILMAZ ŞAHİNBAŞKAN B., Cihangirova M., ÖZGEN H.  
AUTEX 2019, Ghent, Belgium, 11 - 15 June 2019
- XII. **Waterproof Breathable Funchional Applications for Polyester Fabric**  
GÜLCAN E., YILMAZ D., ÇETİNOĞLU F., BÜKÜLMEZER K., YILMAZ ŞAHİNBAŞKAN B.  
ICONTEX 2019, ÇORLU, Turkey, 17 - 18 April 2019
- XIII. **Dyeing of Polyester Containing Elastane**  
GÜLCAN E., YILMAZ D., EMEKLİOĞLU B., YILMAZ ŞAHİNBAŞKAN B.  
4th International Scientific Research Congress, Yalova, Turkey, 14 - 17 February 2019
- XIV. **Otomotiv Endüstrisi İ' çin Şardon Atıklarından Sürdürülebilir Dokusuz Yüzey Eldesi**  
erdal s., akay d., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B.  
V. Uluslararası Multidisipliner Çalışmaları Sempozyumu (ISMS), Ankara, Turkey, 16 - 17 November 2018, pp.422
- XV. **Endüstriyel Bitim İşlemleri- Nano Hibrit Kaplama İle Dış Mekan Tekstil ÜrünlerininÇalışılması**  
sütçüler c., izgi a. a., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B.  
V. Uluslararası Multidisipliner Çalışmaları Sempozyumu (ISMS), Ankara, Turkey, 16 - 17 November 2018, pp.317
- XVI. **Industrial Applications for Sustainable One-bath Pre-treatment and Dyeing of Lyocell Fabrics**  
Gülcan E., Yılmaz D., Yıldırım N. S., Emeklioğlu B., YILMAZ ŞAHİNBAŞKAN B.  
IMSEC 2018, 24 - 27 October 2018
- XVII. **Colouration of Polyamide Fabrics with Carthamus tinctorius L. Materials**  
YILMAZ ŞAHİNBAŞKAN B., ÖZGÜR M., GÖKSU A.  
1st International Congress of Useage of High Technology in Arts (ICUHTA), İstanbul, Turkey, 19 - 20 April 2018
- XVIII. **Improvement of Hydrophilicity and Water/Oil Repellency of Polyester Fabrics**  
Yılmaz Şahinbaşkan B., Öner E., Aydoğan T.  
91st Textile Institute World Conference (TIWC 2018), Leeds, United Kingdom, 23 - 26 July 2018
- XIX. **Influence of Ultrasonic Energy on Thermal Conductivity of Enzymatic Treated Agriculture Fibers**  
ARDIÇ B., MERDAN N., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B.

AUTEX 2018 World Textile Conference, 20 - 22 June 2018

- XX. **Thermal Conductivities of Nonwoven Product From Enzymatic Treated Agricultural Okra Waste**  
YILMAZ ŞAHİNBAŞKAN B., KOÇAK E. D., İZGİ A. A., ARDIÇ B.  
7. International Conference on Advanced Technologies (ICAT 2018), Antalya, Turkey, 28 - 30 April 2018
- XXI. **Ultrasonic Assisted Surface Treatment of Okra Fibers**  
MERDAN N., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B., MİSTİK S. İ., ARDIÇ B.  
ETT2018 8th International Istanbul Textile Conference, 14 - 16 April 2018
- XXII. **Studies on Mechanical Performance of Cynara Scolymus PET Nonwoven Composites**  
İZGİ A. A., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B., MİSTİK S. İ., ARDIÇ B.  
ICENTE 2017, Konya, Turkey, 7 - 09 December 2017
- XXIII. **Investigation of Mechanical Properties of Platanus Orientalis L. / Polyethylene Terephthalate Nonwoven Composite Materials**  
KIZILKAYA S., YILMAZ ŞAHİNBAŞKAN B., MİSTİK S. İ., İZGİ A. A.  
International Conference on Engineering Technologies (ICENTE 2017), 7 - 09 December 2017, pp.594-597
- XXIV. **Studies on Mechanical Performance of Cynara Scolymus PET Nonwoven Composites**  
İZGİ A. A., KOÇAK E. D., YILMAZ ŞAHİNBAŞKAN B., MERDAN N., ARDIÇ B.  
International Conference on Engineering Technologies (ICENTE 2017), 7 - 09 December 2017, pp.602-605
- XXV. **Investigation of Sound Absorption Properties of Okra Nonwoven Materials**  
İZGİ A. A., KOÇAK E. D., MİSTİK S. İ., ARDIÇ B., YILMAZ ŞAHİNBAŞKAN B.  
International Conference on Engineering Technologies (ICENTE 2017), 7 - 09 December 2017, pp.598-601
- XXVI. **INVESTIGATION OF SOUND ABSORPTION PROPERTIES OF OKRANONWOVEN MATERIALS**  
İZGİ A. A., KOÇAK E. D., ARDIÇ B., MİSTİK S. İ., YILMAZ ŞAHİNBAŞKAN B.  
ICENTE 2017, Konya, Turkey, 7 - 09 December 2017
- XXVII. **Comparative Properties of Polyolefin Fibers in Dyeing with Conventional and Microwave Heating Methods**  
YILMAZ ŞAHİNBAŞKAN B., NAYCI DUMAN M., KOÇAK E. D.  
ICENS 2017, 3 - 07 May 2017
- XXVIII. **Dyeing of Polyamide Fabric with Rubia tinctorium L. Using Different Mordants**  
YILMAZ ŞAHİNBAŞKAN B., GÖKSU A., ÖZGÜR M.  
ICENS 2017, 3 - 07 May 2017
- XXIX. **Çevre Dostu Yöntemler Yardımı ile Selülozik Materyallerin Hidrofilleştirilmesi**  
YILMAZ ŞAHİNBAŞKAN B., ÖNER E.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXX. **Single Bath Combined Dyeing of Untreated Cotton Fabric Using Ultrasonic Energy**  
YILMAZ ŞAHİNBAŞKAN B.  
XIII. International Izmir Textile and Apparel Symposium, Antalya, Turkey, 2 - 05 April 2014
- XXXI. **Ecological Surface Modification of Lignocellulosic Fibers Obtained From Arundo Donax L Plant**  
MİSTİK S. İ., OVALI S., KOÇAK E. D., MERDAN N., YILMAZ ŞAHİNBAŞKAN B., KAYAR M.  
6th International Technical Textiles Congress, İzmir, Turkey, 14 - 16 October 2015, pp.311-312
- XXXII. **Investigation of Mechanical Properties of Platanus Orientalis L Seed Fiber Polypropylene Nonwoven Composites**  
KOÇAK E. D., MERDAN N., YILMAZ ŞAHİNBAŞKAN B., MİSTİK S. İ., AKALIN M.  
6th International Technical Textiles Congress, İzmir, Turkey, 14 - 16 October 2015, pp.333-334
- XXXIII. **Ecological Surface Modification on Lignocellulosic Fibers Obtained From Arundo Donax L Plant**  
MİSTİK S. İ., OVALI S., KOÇAK E. D., MERDAN N., YILMAZ ŞAHİNBAŞKAN B., KAYAR M.  
6 th International Technical Textile Congress, 14 - 16 October 2015
- XXXIV. **Effects of Different Mordants on Dyeing of Wool Fabric with Some Red Rose Petals**  
ÇİMEN E., DEMİRELLİ M., YILMAZ ŞAHİNBAŞKAN B.  
AUTEX 2015, Bükreş, Romania, 10 - 12 June 2015
- XXXV. **Conventional Dyeing of 100 Silk Fabrics with Natural Dye Extracted From Dactylopius Costa and Quercus infectoria Olivier**

YILMAZ ŞAHİNBAŞKAN B., KARADAĞ R., TORGAN E.

AUTEX 2015, Bükreş, Romania, 10 - 12 June 2015

XXXVI. **Dyeability of Silk Fabric with Dactylopius coccus Costa and Quercus infectoria Olivier**

YILMAZ ŞAHİNBAŞKAN B., KARADAĞ R., EMİNE T.

International Conference on Engineering and Natural Science, Üsküp, Macedonia, 15 - 19 May 2015

XXXVII. **Natural Dyeing on Woollen Fabric Using Some Red Rose Petals**

ÇİMEN E., DEMİRELLİ M., YILMAZ ŞAHİNBAŞKAN B., ÖZGÜR M.

International Conference on Engineering and Natural Science, Üsküp, Macedonia, 15 - 19 May 2015

XXXVIII. **Dyeing of Polypropylene Based Textile Materials with Different Methods**

KOÇAK E. D., AKALIN M., MERDAN N., YILMAZ ŞAHİNBAŞKAN B.

International Textile Submit 2, Kahramanmaraş, Turkey, 22 - 24 October 2014

XXXIX. **The Effect of Ultrasonic Treatment on Dyeing Properties of Luffa cylindrica Fibers**

YILMAZ ŞAHİNBAŞKAN B.

6 th International Istanbul Textile Conference on Future Technical Textiles, 15 - 17 October 2014

XL. **Effect of Microwave Energy on Disperse Dyeability of Polypropylene Fibers**

KOÇAK E. D., AKALIN M., MERDAN N., YILMAZ ŞAHİNBAŞKAN B.

6 th International Istanbul Textile Conference on Future Technical Textiles, Turkey, 15 - 17 October 2014

XLI. **Karbon Nanotüp Katkılı Kağıtların Işık Haslık Özelliklerinin İncelenmesi**

ÖZDEN Ö., YILMAZ ŞAHİNBAŞKAN B.

31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019

XLII. **APPLICATION OF NANO SOFTENERS ON 97% / 3% COTTON/LYCRA FABRICS KNITTED BY VORTEX AND RING SPUN YARNS**

Öner E., Yılmaz Şahinbaşkan B., Atak O., Capar M.

International Conference TEX TEH 3 on Application of Nanotechnologies for Textiles, Bucharest, Romania, 7 - 08 October 2010, pp.54-61

XLIII. **DYEING PROPERTIES OF WOOLLEN FABRIC WITH QUERCETIN EXTRACTED FROM PUNICA GRANATUM L. RIND USING DIFFERENT DYEING METHOD AND MORDANT MIXTURES**

YILMAZ ŞAHİNBAŞKAN B., Oğutgen Acikgoz Z., GÜMRÜKÇÜ KÖSE G., Ustun Ozgur M.

5th International Textile, Clothing and Design Conference, Dubrovnik, Croatia, 3 - 06 October 2010, pp.433-438

## Metrics

Publication: 102

Citation (WoS): 111

Citation (Scopus): 157

H-Index (WoS): 5

H-Index (Scopus): 5

## Non Academic Experience

BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI, Hakemlik  
TÜBİTAK, 1001 PROJE DEĞERLENDİRME HAKEMLİK  
BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI, Hakemlik