

## Prof. YUSUF ULCAI

### Personal Information

Office Phone: [+90 224 294 2045](tel:+902242942045)

Email: [ulcay@uludag.edu.tr](mailto:ulcay@uludag.edu.tr)

Web: <https://avesis.uludag.edu.tr/ulcay>

### International Researcher IDs

ORCID: 0000-0001-6685-8278

Yoksis Researcher ID: 157409

### Education Information

Doctorate, University of Maryland, College Park, Tekstil Bilimleri, United States Of America 1986 - 1989

Postgraduate, University of Maryland, College Park, Tekstil Bilimleri, United States Of America 1983 - 1986

Undergraduate Double Major, Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, Tekstil Mühendisliği Bölümü, Turkey 1977 - 1982

### Foreign Languages

English, C1 Advanced

### Research Areas

Textile Materials, Composites, Medical Applications of Polymers

### Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2005 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 1992 - 2005

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 1991 - 1992

### Academic and Administrative Experience

Head of Department, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, 2018 - Continues

Dean, Bursa Uludağ University, SPOR BİLİMLERİ FAKÜLTESİ, 2018 - 2019

Rector, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2015 - 2019

Dean, Bursa Uludağ University, İNEGÖL İŞLETME FAKÜLTESİ, 2018 - 2018

Dean, Bursa Uludağ University, HUKUK FAKÜLTESİ, 2016 - 2018

Dean, Bursa Uludağ University, VETERİNER FAKÜLTESİ, 2016 - 2016

Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2008 - 2011

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

- I. **Usage of Barium Titanate in Fabric Coating and Investigation of Some Properties**  
ÇELEN R., MANASOĞLU G., ULCAY Y., KANIK M.  
FIBERS AND POLYMERS, vol.22, no.5, pp.1296-1303, 2021 (SCI-Expanded)
- II. **Polyester Yarns Reinforced by Nanoclays**  
Hojiyev R., ULCAY Y.  
POLYMER SCIENCE SERIES A, vol.63, no.3, pp.318-333, 2021 (SCI-Expanded)
- III. **An Investigation on the Thermal and Solar Properties of Graphene-Coated Polyester Fabrics**  
MANASOĞLU G., ÇELEN R., KANIK M., ULCAY Y.  
COATINGS, vol.11, no.2, 2021 (SCI-Expanded)
- IV. **Investigation of Electromagnetic Shielding and Solar Properties of Woven Fabrics made by Barium titanate/Polyester Bicomponent Yarns**  
ÇELEN R., ULCAY Y.  
TEKSTİL VE KONFEKSİYON, vol.30, no.4, pp.251-261, 2020 (SCI-Expanded)
- V. **Poly(ethylene terephthalate)-Clay Nanocomposite Multifilament Yarn: Physical and Thermal Properties**  
Hojiyev R., ULCAY Y., Çelik M. S.  
POLYMER SCIENCE SERIES A, vol.62, no.4, pp.392-406, 2020 (SCI-Expanded)
- VI. **Electrical resistivity and thermal conductivity properties of graphene-coated woven fabrics**  
Manasoglu G., ÇELEN R., KANIK M., ULCAY Y.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.40, 2019 (SCI-Expanded)
- VII. **Influence of sea polymer removal on sound absorption behavior of islands-in-the-sea spunbonded nonwovens**  
SÜVARİ F., ULCAY Y., Pourdeyhimi B.  
TEXTILE RESEARCH JOURNAL, vol.89, no.12, pp.2444-2455, 2019 (SCI-Expanded)
- VIII. **Investigating electromagnetic shielding effectiveness of knitted fabrics made by barium titanate/polyester bicomponent yarn**  
ÇELEN R., ULCAY Y.  
JOURNAL OF ENGINEERED FIBERS AND FABRICS, vol.14, 2019 (SCI-Expanded)
- IX. **Synthesis and in vitro antimicrobial characterization of Boron-PVA Electrospun nanofibers**  
Isik A. F., Keskin N. O. S., ULCAY Y.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.110, no.4, pp.575-580, 2019 (SCI-Expanded)
- X. **Development of a clay-polymer compatibility approach for nanocomposite applications**  
Hojiyev R., ULCAY Y., Çelik M. S.  
APPLIED CLAY SCIENCE, vol.146, pp.548-556, 2017 (SCI-Expanded)
- XI. **Hydrophobicity and polymer compatibility of POSS-modified Wyoming Na-montmorillonite for developing polymer-clay nanocomposites**  
Hojiyev R., ULCAY Y., Hojamberdiev M., Çelik M. S., Carty W. M.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.497, pp.393-401, 2017 (SCI-Expanded)
- XII. **Effect of CEC coverage of hexadecyltributylphosphonium modified montmorillonite on polymer compatibility**  
Hojiyev R., ULCAY Y., Çelik M. S., Carty W. M.  
APPLIED CLAY SCIENCE, vol.141, pp.204-211, 2017 (SCI-Expanded)
- XIII. **Preparation and textile application of poly(methyl methacrylate-co-methacrylic acid)/n-octadecane and n-eicosane microcapsules**  
ALAY AKSOY S., ALKAN C., Tozum M. S., Demirbag S., Anayurt R. A., ULCAY Y.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.1, pp.30-41, 2017 (SCI-Expanded)
- XIV. **Comparing the Prediction Capabilities of Artificial Neural Network (ANN) and Nonlinear Regression Models in Pet-Poy Yarn Characteristics and Optimization of Yarn Production Conditions**  
YILDIRIM K., ÖĞÜT H., ULCAY Y.  
JOURNAL OF ENGINEERED FIBERS AND FABRICS, vol.12, no.3, pp.7-16, 2017 (SCI-Expanded)
- XV. **Sound absorption analysis of thermally bonded high-loft nonwovens**

- SÜVARİ F., ULCAI Y., Pourdeyhimi B.  
TEXTILE RESEARCH JOURNAL, vol.86, no.8, pp.837-847, 2016 (SCI-Expanded)
- XVI. **PRODUCTION OF BI-COMPONENT POLYESTER FIBRES FOR EMR (ELECTROMAGNETIC RADIATION) PROTECTION AND EXAMINING EMR SHIELDING CHARACTERISTICS**  
EREN S., ULCAI Y.  
TEKSTİL VE KONFEKSİYON, vol.25, no.2, pp.140-147, 2015 (SCI-Expanded)
- XVII. **An experimental study and model development of poly(ethylene terephthalate) yarn morphology**  
YILDIRIM K., ULCAI Y.  
E-POLYMERS, vol.14, no.2, 2014 (SCI-Expanded)
- XVIII. **Acoustical absorptive properties of spunbonded nonwovens made from islands-in-the-sea bicomponent filaments**  
SÜVARİ F., ULCAI Y., Maze B., Pourdeyhimi B.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.104, no.4, pp.438-445, 2013 (SCI-Expanded)
- XIX. **Influence of Stitching Parameters on Tensile Strength of Aramid/Vinyl Ester Composites**  
KARAHAN M., ULCAI Y., KARAHAN N., KUŞ A.  
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.19, no.1, pp.67-72, 2013 (SCI-Expanded)
- XX. **Investigation into the Tensile Properties of Stitched and Unstitched Woven Aramid/Vinyl Ester Composites**  
KARAHAN M., KARAHAN N., ULCAI Y., EREN R., Kaynak G.  
TEXTILE RESEARCH JOURNAL, vol.80, no.10, pp.880-891, 2010 (SCI-Expanded)
- XXI. **Forming Regression-based Mathematical Models to Predict PET POY Yarn Properties in the Case of Changing Production Parameters**  
Yildirim K., ULCAI Y., KOPMAZ O.  
TEXTILE RESEARCH JOURNAL, vol.80, no.5, pp.411-421, 2010 (SCI-Expanded)
- XXII. **THE EFFECT OF FIRST HEATER TEMPERATURE ON THE PROPERTIES OF FALSE-TWIST TEXTURED POLY (ETHYLENE TERAPHTHALATE) YARN**  
Yildirim K., Altun S., ULCAI Y.  
TEKSTİL VE KONFEKSİYON, vol.19, no.4, pp.286-290, 2009 (SCI-Expanded)
- XXIII. **Influence of melt spinning conditions on dye uptake of poly(ethylene terephthalate) fibres**  
Yildirim K., Altun S., KANIK M., ULCAI Y.  
COLORATION TECHNOLOGY, vol.125, no.3, pp.151-154, 2009 (SCI-Expanded)
- XXIV. **Relationship between Yarn Properties and Process Parameters in False-Twist Textured Yarn**  
Yildirim K., Altun S., ULCAI Y.  
JOURNAL OF ENGINEERED FIBERS AND FABRICS, vol.4, no.2, pp.26-32, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The current status of the Turkish textile and apparel sector's innovation system**  
Balçak Girgin A., Ulcaı Y.  
Journal of innovative engineering and natural science (Online), vol.4, no.1, pp.38-58, 2024 (Peer-Reviewed Journal)
- II. **Bikomponent Lifler**  
ÇELEN R., ULCAI Y.  
Tekstil ve Mühendis, vol.26, no.114, pp.177-187, 2019 (Scopus)
- III. **BARYUM TİTANATIN TEKSTİLDE ELEKTROMANYETİK KALKANLAMA UYGULAMALARINDA KULLANIMI**  
ÇELEN R., ULCAI Y.  
Uludağ University Journal of The Faculty of Engineering, vol.23, no.2, 2018 (Peer-Reviewed Journal)
- IV. **Investigation of Performance Properties of Graphene Coated Fabrics**  
ÇELEN R., MANASOĞLU G., KANIK M., ULCAI Y.

International Journal of Modern Research in Engineering and Technology, 2018 (Peer-Reviewed Journal)

- V. **Textile Arterial Grafts**  
EREN S., ULCA Y.  
Electronic Journal of Textile Technologies, vol.4, no.1, pp.35-47, 2010 (Peer-Reviewed Journal)
- VI. **Endüstriyel atık akışkanların ülke ekonomisine katkısının irdelenmesi**  
Etemoğlu A. B., Can M., Ulcay Y.  
Standard, vol.2006, pp.62-69, 2006 (Peer-Reviewed Journal)
- VII. **Ameliyat İpliklerinin Kullanım Özellikleri**  
Ulcay Y., Karaca E.  
Tekstil & Teknik, vol.107, pp.104-106, 1993 (Non Peer-Reviewed Journal)
- VIII. **Ameliyat İpliklerinin Gelişimi, Hammadde ve Özellikleri**  
Ulcay Y., Karaca E.  
Tekstil & Teknik, vol.106, pp.101-106, 1993 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **İnşaat Teknik Tekstilleri (Buildtech)**  
SÜVARİ F., ULCA Y.  
in: Teknik Tekstil 2011 Frankfurt Fuarı Teknolojik Değerlendirme Raporu, Yusuf Ulcay, Şengül Teke, Gülsüm Uygun Sezen, Editor, Uludağ İhracatçı Birlikleri BUTEKOM, Bursa, pp.20-30, 2012
- II. **ITMA 2011 Fuarında Sergilenen Dokusuz Yüzey Makineleri ve Teknolojik Gelişmeler**  
SÜVARİ F., ULCA Y.  
in: ITMA 2011 Uluslararası Tekstil Makineleri Fuarı Teknolojik Değerlendirme Raporu, Yusuf Ulcay, Şengül Teke, Gülsüm Uygun Sezen, Editor, Uludağ İhracatçı Birlikleri BUTEKOM, Bursa, pp.58-63, 2012

## Refereed Congress / Symposium Publications in Proceedings

- I. **Reducing noise level in vehicles by spunbonded nonwovens made from bicomponent filaments**  
SÜVARİ F., ULCA Y., Maze B., Pourdeyhimi B.  
2013 Spring Technical Conference of the Fiber Society, Geelong, Australia, 22 - 24 May 2013
- II. **Sound Absorption Behaviour of Multi-layer Islands in the Sea Nonwovens**  
SÜVARİ F., ULCA Y., Pourdeyhimi B.  
5th International Technical Textiles Congress-2012, İzmir, Turkey, 7 - 09 November 2012, pp.1-5
- III. **On the design method of lightweight construction materials: Structural characteristics-tearing strength relationship**  
SÜVARİ F., ULCA Y.  
Fiber Society 2012 Fall Meeting and Technical Conference in Partnership with Polymer Fibers 2012: Rediscovering Fibers in the 21st Century, Massachusetts, United States Of America, 7 - 09 November 2012
- IV. **Sound absorptive nonwovens for indoor structures**  
SÜVARİ F., ULCA Y., Pourdeyhimi B.  
2012 Spring Conference of the Fiber Society, St. Gallen, Switzerland, 23 - 25 May 2012
- V. **Experimental Investigation Into Sound Absorptive Properties of PET/PP High Loft Nonwovens**  
SÜVARİ F., ULCA Y.  
International Congress of Innovative Textiles ICONTEX 2011, İstanbul, Turkey, 20 - 22 October 2011, pp.368-373

## Metrics

Publication: 83

Citation (WoS): 263

Citation (Scopus): 460

H-Index (WoS): 10

H-Index (Scopus): 13

## **Non Academic Experience**

University of Maryland

ASCR

University of Maryland

ABD - Tarım Bakanlıđı - HNIS

Bursa Üniversitesi - Makina Fakültesi