

## Assoc. Prof. RAZİYE BEFRU BÜYÜKBAYRAKTAR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-2193-2019

ScopusID: 36483607300

Yoksis Researcher ID: 25177

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (Dr), Turkey 2007 - 2012

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (YI) (Tezli), Turkey 2004 - 2007

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, Turkey 1999 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kumaşların geçirgenlik özellikleri ile yapısal ve geometrik özellikleri arasındaki ilişkiler, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (Dr), 2012

Postgraduate, Dimi örgülü kumaş yapılarının üç boyutlu geometrik modellerinin geliştirilerek, üç boyutlu bilgisayar simülasyonlarının gerçekleştirilmesi, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (YI) (Tezli), 2007

### Research Areas

Textile Engineering and Technology

### Academic and Administrative Experience

Bölüm Kalite Komisyonu Başkanı, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, 2021 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, 2021 - Continues

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, 2014 - 2016

## Courses

Dokuma Teknolojisi II, Undergraduate, 2022 - 2023, 2021 - 2022

WEAVING II, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018

Fabric Design, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

PRODUCT AND PROCESS DESIGN IN TEXTILE, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

PRODUCT AND PROCESS DESIGN IN TEXTILE I, Undergraduate, 2023 - 2024, 2022 - 2023

Dokuma Teknolojisi I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

Bitirme Projesi, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Textile Physics, Undergraduate, 2023 - 2024

Dokuma Teknolojisi I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Computer Programming II, Undergraduate, 2021 - 2022, 2020 - 2021, 2018 - 2019

Fabric Design, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Fabric Design, Undergraduate, 2020 - 2021, 2019 - 2020

Dokuma Teknolojisi II, Undergraduate, 2019 - 2020, 2018 - 2019, 2013 - 2014

Karmaşık Dokumalar, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

FABRIC MECHANICS, Postgraduate, 2017 - 2018

BİLGİSAYAR PROGRAMLAMA I, Undergraduate, 2016 - 2017, 2015 - 2016, 2013 - 2014

## Advising Theses

BÜYÜKBAYRAKTAR R. B., Developing a design software for woven fabrics, Postgraduate, S.TUBA(Student), 2019

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

- I. **A generalised geometric model for the determination of shear angle during the bias-extension test**  
Büyükbayraktar R. B.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.113, no.10, pp.2249-2262, 2022 (SCI-Expanded)
- II. **Mechanical properties of silage covering fabrics as agrotextiles**  
Büyükbayraktar R. B., Celik Bedeloglu A.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.112, no.4, pp.545-552, 2021 (SCI-Expanded)
- III. **An investigation on shear properties of woven fabrics by bias-extension test**  
BÜYÜKBAYRAKTAR R. B.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.112, no.3, pp.505-513, 2021 (SCI-Expanded)
- IV. **The comparison of classical weaving and laser technology in denim fabric's design**  
Buyukbayraktar B. R., Batur G.  
INDUSTRIA TEXTILA, vol.72, no.4, pp.418-425, 2021 (SCI-Expanded)
- V. **Effect of Self- Stitched Double Fabric's Properties on Tensile and Permeability Performances**  
BÜYÜKBAYRAKTAR R. B.  
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.27, no.2, pp.232-238, 2021 (SCI-Expanded)
- VI. **An investigation on the bagging load of different woven fabrics**  
BÜYÜKBAYRAKTAR R. B.  
INDUSTRIA TEXTILA, vol.67, no.1, pp.25-32, 2016 (SCI-Expanded)
- VII. **Comparing the packing densities of yarns spun by ring, compact and vortex spinning systems using image analysis method**  
KILIÇ M., BÜYÜKBAYRAKTAR R. B., BALCI KILIÇ G., Aydin S., Eski N.  
INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH, vol.39, no.4, pp.351-357, 2014 (SCI-Expanded)

- VIII. **The relationship between the bagging deformation and air permeability performance of woven fabrics**  
 BÜYÜKBAYRAKTAR R. B.  
 INDUSTRIA TEXTILA, vol.65, no.1, pp.10-16, 2014 (SCI-Expanded)
- IX. **A 3-D model study for 2/1 twill and 3/1 twill weaves**  
 Turan R. B., OKUR A.  
 INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH, vol.38, no.3, pp.251-258, 2013 (SCI-Expanded)
- X. **Predicting the intra-yarn porosity by image analysis method**  
 Turan R. B., OKUR A., DEVECİ R., Acikel M.  
 TEXTILE RESEARCH JOURNAL, vol.82, no.16, pp.1720-1728, 2012 (SCI-Expanded)
- XI. **Variation of the yarn cross-section in fabric**  
 Turan R. B., OKUR A.  
 TEXTILE RESEARCH JOURNAL, vol.82, no.7, pp.719-724, 2012 (SCI-Expanded)
- XII. **Investigation of pore parameters of woven fabrics by theoretical and image analysis methods**  
 Turan R. B., OKUR A.  
 JOURNAL OF THE TEXTILE INSTITUTE, vol.103, no.8, pp.875-884, 2012 (SCI-Expanded)
- XIII. **Three-dimensional computer simulation of 2/2 twill woven fabric by using B-splines**  
 Turan R. B., Baser G.  
 JOURNAL OF THE TEXTILE INSTITUTE, vol.101, no.10, pp.870-881, 2010 (SCI-Expanded)

### Articles Published in Other Journals

- I. **A WOVEN FABRIC DESIGN PROGRAM OFFERING PHYSICAL DESIGN ANALYSIS FOR DOBBY FABRICS**  
 Büyükbayraktar R. B., Keskin S. T.  
 Tekstil ve Mühendis, vol.27, no.117, pp.12-21, 2020 (Scopus)
- II. **Modelling the cross-sectional properties of yarn along the fabric**  
 BÜYÜKBAYRAKTAR R. B.  
 Vlakna a Textil, vol.26, no.1, pp.24-29, 2019 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **MODELLING THE CROSS-SECTIONAL PROPERTIES OF YARN ALONG THE FABRIC**  
 Büyükbayraktar R. B.  
 Strutex 2018, Liberec, Czech Republic, 5 - 07 December 2018, pp.57-63
- II. **THE EFFECT OF BAGGING DEFORMATION TO THE PERMEABILITY PROPERTIES OF FABRICS**  
 Büyükbayraktar R. B.  
 13th AUTEX World Textile Conference, Dresden, Germany, 22 May 2013, no.308, pp.1-5
- III. **The Capillary Behaviour of Woven Fabrics**  
 Turan R. B., Okur A.  
 12th Autex, Zadar, Croatia, 13 - 15 June 2012, pp.449-454
- IV. **Modeling of Twill Fabrics by B-Spline Curves**  
 Turan R. B., Okur A.  
 ICONTEX 2011, Tekirdağ, Turkey, 20 October 2011 - 22 October 2012, pp.630-636
- V. **PREDICTION OF POROSITY OF WOVEN FABRICS HAVING DIFFERENT WEAVES**  
 Turan R. B., Okur A.  
 4th International Technical Textiles Congress, İstanbul, Turkey, 16 May 2010 - 18 May 2011, pp.1-9
- VI. **Usage Of Artificial Neural Network Technique In Textile Studies**  
 Bedeloğlu A., Turan R. B.  
 International Symposium on Engineering and Architectural Science of Balkan, Caucasus and Turkic Republics,

Isparta, Turkey, 22 - 24 October 2009, pp.168-173

**VII. Nanotechnology applications of shape memory materials in textiles**

Turan R. B., Bedeloğlu A., Yıldırım B.

5. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Eskişehir, Turkey, 8 - 12 June 2009, pp.418

**VIII. Teknik Tekstillerde Kullanılan Dokuma ve Örme Kumaş Yapıları**

Kayacan Ö., Turan R. B.

Tekstil Teknolojileri ve Tekstil Makinaları Kongresi, Gaziantep, Turkey, 11 - 12 November 2005, pp.107-115

## **Scientific Refereeing**

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2022

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2022

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, June 2022

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, February 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Dokuz Eylul University, Turkey, October 2021

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, September 2021

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, May 2021

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2021

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, January 2021

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2021

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2020

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2020

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, February 2020

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2020

Vlakna a Textil (Fibers and Textiles) Journal, Other Indexed Journal, September 2019

TRANSPORT IN POROUS MEDIA, SCI Journal, August 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2018

JOURNAL OF COMPOSITE MATERIALS, SCI Journal, April 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, November 2017

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2017

TEXTILE RESEARCH JOURNAL, SCI Journal, August 2017

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2017

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2017

TEXTILE RESEARCH JOURNAL, SCI Journal, March 2017

TEXTILE RESEARCH JOURNAL, SCI Journal, December 2016

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, November 2016

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, November 2016

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2016

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2016

TEXTILE RESEARCH JOURNAL, SCI Journal, April 2016

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, December 2015

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2015

TEXTILE RESEARCH JOURNAL, SCI Journal, September 2015

JOURNAL OF THE TEXTILE INSTITUTE, National Scientific Refreed Journal, September 2015

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2015

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2015

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2015

TEXTILE RESEARCH JOURNAL, National Scientific Refreed Journal, August 2014

POLYMER COMPOSITES, SCI Journal, June 2014  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2014  
POLYMER COMPOSITES, SCI Journal, February 2014  
INDUSTRIA TEXTILA, SCI Journal, January 2014  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, December 2013  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2013  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2013  
FIBERS AND POLYMERS, SCI Journal, May 2013  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2013  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, October 2012  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, August 2012  
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2012  
TEXTILE RESEARCH JOURNAL, SCI Journal, December 2010

## **Metrics**

Publication: 27

Citation (WoS): 126

Citation (Scopus): 135

H-Index (WoS): 7

H-Index (Scopus): 7

## **Congress and Symposium Activities**

Strutex 2018, Attendee, Liberec, Czech Republic, 2018