

## Prof. MEHMET ORHAN

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### International Researcher IDs

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### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Tekstil Mühendisliği (Dr), Turkey 2001 - 2007

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Tekstil Mühendisliği (YI) (Tezli), Turkey 1999 - 2001

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Tekstil Mühendisliği Bölümü, Turkey 1993 - 1997

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Pamuk, poliamid ve poliester esaslı tekstil materyallerinde antimikrobiyel bitim uygulamaları üzerine bir araştırma, Bursa Uludağ University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2007

Postgraduate, Sentetik atıklardan elde edilen dokusuz yüzeylerin fiziksel özelliklerinin araştırılması, Bursa Uludağ University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2001

### Research Areas

Health Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2021 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2014 - 2021

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2012 - 2014

Lecturer PhD, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2008 - 2012

## Academic and Administrative Experience

Erasmus Program Institutional Coordinator, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 2010 - Continues

## Courses

ISG201 İş Sağlığı ve Güvenliği I, Undergraduate, 2017 - 2018  
TEK 5039 Mühendislik Uygulamalarında Modern Karakterizasyon Yöntemleri, Postgraduate, 2017 - 2018  
TEK4307 Tekstil Endüstrisinde İş Güvenliği ve İşçi Sağlığı, Undergraduate, 2017 - 2018  
TEK3097 Tekstiller İçin Standart Test Yöntemleri, Undergraduate, 2017 - 2018  
TEK6015 Mühendislik Uygulamalarında İleri Karakterizasyon Yöntemleri, Doctorate, 2017 - 2018

## Advising Theses

ORHAN M., Investigation of the effects of different type softeners on cotton, viscose and polyester knitted fabrics, Postgraduate, B.Özbarutçu(Student), 2019  
ORHAN M., Investigation of antibacterial and antioxidant properties of textile surfaces treated with zeolite-added chitosan, Postgraduate, H.Aybige(Student), 2017  
ORHAN M., Investigation of the effects of different type chemical effect of providing wrinkle on fabric properties of dyed viscose woven fabric, Postgraduate, G.GAZİOĞLU(Student), 2015

## Books & Book Chapters

- I. **Antibacterial Activity of Smart (Auxetic) Polyurethane Foams**  
K BHULLAR S., ORHAN M., Jun M. B. G.  
in: Nanotechnology-Driven Engineered Materials, Sabu Thomas, Yves Grohens, Nandakumar Kalarikkal, Oluwatobi Samuel Oluwafemi, Praveen K.M., Editor, Taylor Francis Group, New York, pp.241-253, 2018
- II. **ITMA 2015 Dokunmamış Yüzey (Nonwoven) Sektöründeki Gelişmeler**  
KUT Y. D., ORHAN M., ÖMEROĞULLARI BAŞYİĞİT Z.  
in: ITMA 2015 Tekstil Makineleri BUTEKOM Teknolojik Değerlendirme Raporu, Prof. Dr. Yusuf ULCAY, , Editor, Butekom, Bursa, pp.74-84, 2016
- III. **ITMA 2015 Eğirmeli Bağlantı (Spunbond) ile Serim Sistemlerindeki Yenilikler**  
ORHAN M., ÖMEROĞULLARI BAŞYİĞİT Z., KUT Y. D.  
in: ITMA 2015 Tekstil Makineleri BUTEKOM Teknolojik Değerlendirme Raporu, Prof. Dr. Yusuf ULCAY, Şengül TEKE, Editor, Butekom, Bursa, pp.85-89, 2016
- IV. **ITMA 2015 Mekanik Bitim İşlemlerinde Kullanılan Makinalardaki Gelişmeler 1**  
ÖMEROĞULLARI BAŞYİĞİT Z., ORHAN M., KUT Y. D., POLAT H.  
in: ITMA 2015 Tekstil Makineleri BUTEKOM Teknolojik Değerlendirme Raporu, Prof. Dr. Yusuf ULCAY, Şengül TEKE, Editor, Butekom, Bursa, pp.100-110, 2016
- V. **ITMA 2015 Mekanik Bitim İşlemlerinde Kullanılan Makinalardaki Gelişmeler 2**  
ÖMEROĞULLARI BAŞYİĞİT Z., ORHAN M., KUT Y. D., POLAT H.  
in: ITMA 2015 Tekstil Makineleri BUTEKOM Teknolojik Değerlendirme Raporu, Prof. Dr. Yusuf ULCAY, Şengül TEKE, Editor, Butekom, Bursa, pp.111-117, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **Behaviors of Cement-Based Surfaces under Repetitive Pollution and Bacterial Effects**

ÜNAL S., CANBAZ M., ORHAN M.

5. International Ankara Multidisciplinary Studies Congress, Ankara, Turkey, 27 - 29 June 2023, pp.727-735

- II. **Dış Mekan Kumaşlara Yapılan Ön Yıkama İşleminin Su İticilik Bitim İşlemleri Üzerine Etkilerinin İncelenmesi**  
KARASU A., ORHAN M.  
1. International Boğaziçi Scientific Research Congress, İstanbul, Turkey, 13 - 14 May 2023, pp.381-387
- III. **Farklı Monomer Karışım Oranları ve Katkı Malzemesi ile**  
KESKİN E. N., ORHAN M., SEVİM H., KAFİYE ÖĞÜTGEN M., AYDIN İ.  
15th International Scientific Research Congress (UBAK), Ankara, Turkey, 17 - 18 December 2022, pp.210-215
- IV. **Solution Blown of PLA Nanofiber Containing Ozonated Mormodica Oil and Its Microcapsules to Obtain Antibacterial Medical Textiles Surfaces**  
Pektaş K., Balcı O., Orhan M.  
23rd International Conference Strutex 2022, Liberec, Czech Republic, 30 November - 02 December 2022, pp.1-2
- V. **Influence of Polymer Solution Properties on the Electrospinning of Halochromic Dye Added PAN Nanofibers**  
Güçlü N., Düzyer Gebizli Ş., Orhan M.  
3 rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.2008
- VI. **Durable Antibacterial Property of PET with N-Halamine in Supercritical CO2**  
ORHAN M., DEMİRCİ F., KOÇER H. B., NIERSTRASZ V.  
17th National and 3rd International The Recent Progress Symposium on Textile Technology and Chemistry, Bursa, Turkey, 20 - 22 November 2019, pp.1
- VII. **Investigation of Antibacterial Properties of Textile Surfaces Treated with Zeolite-Added Chitosan**  
AKDAĞ H. A., ORHAN M.  
2nd International Euroasian Conference on Biological and Chemical Sciences 2019, Ankara, Turkey, 28 - 29 June 2019, pp.1
- VIII. **Biocidal Functionalization of PET With N-halamine Using by Supercritical Carbon Dioxide**  
ORHAN M., DEMİRCİ F., KOÇER H. B., NIERSTRASZ V.  
19th World Textile Conference Textiles at the Crossroads Autex 2019, Ghent, Belgium, 11 - 15 June 2019, pp.1
- IX. **Transferring of the PVA Microcapsules Containing Ozonized Oils Onto Textile Surfaces and Evaluation of Their Anti-Bacterial Activity,**  
PEKTAŞ K., BALCI O., SANCAR BEŞEN B., GÜNEŞOĞLU C., ORHAN M.  
7th International Technical Textiles Congress, İzmir, Turkey, 10 - 12 October 2018
- X. **In Vitro Antibacterial Activity of fresh Zingiber officinale**  
GONCAGÜL G., ORHAN M., YILMAZ D., GÜNAYDIN E., ÖZAKIN C.  
5th World Conference on Health Sciences, Aydın, Turkey, 27 - 29 April 2018, pp.8
- XI. **Antibacterial Effect of Zingiber Officinale**  
GÜCEYÜ Ç., ORHAN M., GONCAGÜL G., YILMAZ K., ÖZAKIN C.  
5th World Conference on Health Sciences (HSCI-2018), Kuşadası, Turkey, 27 - 29 April 2018, pp.25
- XII. **Cotinus coggygia Scop. (Tetra) Plant Antibacterial Effect**  
GONCAGÜL G., ORHAN M., YILMAZ K., GÜCEYÜ Ç., GÜNAYDIN E., ÖZAKIN C.  
5th World Conference on Health Sciences (HSCI-2018), Kuşadası, Turkey, 27 - 29 April 2018, pp.7
- XIII. **Investigation of Antibacterial Effect of Nigella Sativa from Turkey**  
ORHAN M., GONCAGÜL G., YILMAZ K., AKPINAR P., ÖZAKIN C.  
5th World Conference on Health Sciences (HSCI-2018), Kuşadası, Turkey, 27 - 29 April 2018, pp.9
- XIV. **The Usage of Microcapsules Containing Various Ozonated Oils in the Production of Antibacterial Textile Surfaces**  
PEKTAŞ K., SANCAR BEŞEN B., BALCI O., GÜNEŞOĞLU C., ORHAN M., ÇANKAYA İ. İ.  
3rd International Congress on Healthcare and Medical Textiles, 26 - 28 October 2017
- XV. **Anti-Bakteriyel Aktiviteye Sahip Olan Bitkisel Ve Hayvansal Yağların Ozonlama İşlemiyle Antibakteriyel Aktivitesinin Arttırılması**

PEKTAŞ K., SANCAR BEŞEN B., BALCI O., GÜNEŞOĞLU C., ORHAN M., ÇANKAYA İ. İ., DOĞRU E.

International Symposium On Medicinal, Aromatic And Dye Plants, 5 - 07 October 2017

- XVI. **Determining the Optimum Application Mecipe for Microcapsules of Ozonated Vegetable oils to Save Antibacterial Activity to Textiles**  
SANCAR BEŞEN B., BALCI O., GÜNEŞOĞLU C., ÇANKAYA İ. İ., ORHAN M., BEYLİ E.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1414
- XVII. **Antimikrobiyal polykaprolaktam ve polykaprolakton nanoliflerin geliştirilmesi**  
TURŞUCULAR Ö. F., AYKUT Y., ORHAN M., ÇERKEZ İ.  
UTIB VIII. International RD prokerage event, Bursa, Turkey, 12 - 13 May 2016
- XVIII. **Biyomedikal uygulamalar için propolis katkı nano yüzeyler**  
Orhan M., Şafak Ş., Aykut Y., Karaca E., Özakin C.  
UTIB VIII. International RD prokerage event, Bursa, Turkey, 12 - 13 May 2016
- XIX. **Imparting Antibacterial Finish on Cotton Fabrics via Aloe Vera Gel Microencapsules: The Comparison of Preparation, Processing, and Performance Between Two Microencapsulation Techniques**  
GÜNEŞOĞLU C., MANTAR G., GÜNEŞOĞLU S., ÇANKAYA İ. İ., ORHAN M., GENÇ A.  
The Fiber Society Spring 2014, Liberec, Czech Republic, 21 - 23 May 2014, pp.1-5
- XX. **Improving The Fire Retardant Property of Polyethylene Terephthalate by Plasma**  
ORHAN M., ECERTAŞ N. Ş., GÜNEŞOĞLU C.  
The International Istanbul Textile Congress 2013, İstanbul, Turkey, 30 May - 01 June 2013, pp.1-5
- XXI. **Antibacterial Efficiency of Aloe Vera (L.) Gel Microcapsules on Woven Cotton Fabrics**  
MANTAR G., GÜNEŞOĞLU C., ORHAN M., GENÇ A., ÇANKAYA İ. İ.  
The International Istanbul Textile Congress 2013, İstanbul, Turkey, 30 May - 01 June 2013, pp.1-5
- XXII. **Plazma İşlemi ile Poliesterin Güç Tutuşurluk Özelliğinin İyileştirilmesi**  
ORHAN M., ECERTAŞ N. Ş., GÜNEŞOĞLU C.  
14th National 1st International Recent Developments, Textile Technology and Chemistry Symposium, Bursa, Turkey, 8 - 10 May 2013, pp.51
- XXIII. **An Industrial Example of Cosmetotextile Application: Selective Herbal Material Usage On Cotton Fabrics**  
MANTAR G., GÜNEŞOĞLU C., ORHAN M., GENÇ A., ÇANKAYA İ. İ.  
14th National 1st International Recent Developments, Bursa, Turkey, 8 - 10 May 2013, pp.115
- XXIV. **Improving the Antibacterial Property of Polyethylene Terephthalate by Plasma**  
ORHAN M., ECERTAŞ N. Ş., GÜNEŞOĞLU C.  
14th National 1st International Recent Developments, Textile Technology and Chemistry Symposium, Bursa, Turkey, 8 - 10 May 2013, pp.148
- XXV. **Antibakteriyel-Antifungal Etkinlik Sağlamak İçin Mikrokapsül Hazırlanması ve Hastanelerde Kullanılacak Pamuklu Kumaşlara Aktarılması**  
KUT Y. D., ORHAN M., ÖMEROĞULLARI Z.  
TÜRKİYE İNOVASYON HAFTASI TIM, 6 - 08 December 2012
- XXVI. **The Antibacterial Activity of Plumbago Europaea L. Extract On Textile Surface**  
ÇANKAYA İ. İ., GÜNEŞOĞLU C., ORHAN M., ARABACI ANUL S., GÜNEŞOĞLU S.  
AIChE 2012 Annual Meeting in Pittsburgh, Pennsylvania, United States Of America, 28 October - 02 November 2012, pp.314
- XXVII. **Characterization of Triclosan on PET Fibers**  
ORHAN M.  
Icontex 2011 International Congress of Innovative Textiles, İstanbul, Turkey, 20 - 22 October 2011, pp.133-137
- XXVIII. **An Investigation on Nanotechnology in Textiles**  
GÜNEŞOĞLU C., KUT Y. D., ORHAN M.  
ArchTex 2005, Krakow, Poland, 18 - 20 September 2005
- XXIX. **An Investigation on Nanotechnology in Textiles: A Comparison with Traditional Textile Finishing Applications**

GÜNEŞOĞLU C., KUT Y. D., ORHAN M.

VIII. International Conference ArchTex 2005, Krakow, Poland, 18 - 20 September 2005, pp.195-200

- XXX. **The Effect of Softener Type on Some Properties of 100 Pet Woven Fabric**  
KUT Y. D., GÜNEŞOĞLU C., ORHAN M.  
2nd International Textile, Clothing & Design Conference-Magic World of Textiles, Dubrovnik, Croatia, 3 - 06 October 2004
- XXXI. **Su Kir Yağ İtici Bitim İşlemlerinde Nanoteknoloji**  
KUT Y. D., GÜNEŞOĞLU C., ORHAN M.  
II. Ulusal Tekstil Yardımcı Kimyasalları Kongresi, Bursa, Turkey, 27 - 28 September 2004
- XXXII. **Farklı Yapıdaki Antibakteriyel Maddelerin Tekstil Mamüllerine Uygulamaları**  
KUT Y. D., ORHAN M., GÜNEŞOĞLU C.  
II. Ulusal Tekstil Yardımcı Kimyasalları Kongresi, Bursa, Turkey, 27 - 28 September 2004
- XXXIII. **Tekstillerde Hijyen Uygulamaları**  
KUT Y. D., ORHAN M., GÜNEŞOĞLU C.  
3. Sterilizasyon ve Dezenfeksiyon Kongresi, Samsun, Turkey, 2 - 03 October 2003
- XXXIV. **Camouflage Technology in Textile**  
KUT Y. D., GÜNEŞOĞLU C., ORHAN M.  
5th International Conference, TEXSCI 2003, Liberec, Czech Republic, 16 - 18 June 2003
- XXXV. **Antimikrobiyal Bitim İşlemi Uygulamaları**  
KUT Y. D., ORHAN M., GÜNEŞOĞLU C.  
I. Ulusal Tekstil Yardımcı Kimyasalları Kongresi, Bursa, Turkey, 12 - 13 December 2002
- XXXVI. **Effects of Calendering to The Mechanical Properties of Fabrics and The Effectiveness of Finishing Agents Iasi Romania**  
KUT Y. D., GÜNEŞOĞLU C., ORHAN M.  
The XII.Th Textile and Leather Romaninan Conference, Iasi, Romania, 17 - 19 October 2002
- XXXVII. **Effects of Calendering to The Mechanical Properties of Fabrics and The Effectiveness of Finishing Agents**  
KUT Y. D., GÜNEŞOĞLU C., ORHAN M.  
Effects of Calendering to The Mechanical Properties of Fabrics and The Effectiveness of Finishing Agents, Iasi, Romania, 17 - 19 October 2002, pp.26-36
- XXXVIII. **Pes Esaslı Farklı Yapıdaki Otomotiv Koltuk Döşeme Kumaş Özelliklerinin Karşılaştırılması**  
KUT Y. D., ORHAN M., GÜNEŞOĞLU C.  
Otekon-02, Otomotiv Teknolojileri Konferansı, Bursa, Turkey, 24 - 26 June 2002
- XXXIX. **Dilek TOPRAKKAYA Mehmet ORHAN Cem GÜNEŞOĞLU Silikon Bileşiklerinin Tekstil Sektöründeki Uygulamaları s 159 167 18 20 Ekim 2000 Ankara Türkiye**  
KUT Y. D., ORHAN M., GÜNEŞOĞLU C.  
II. Sabun, Deterjan ve Yardımcı Maddeler Sanayi Kongresi ve Sergisi, Ankara, Turkey, 18 - 20 October 2000

## Patent

Orhan M., Tezel S., Tiritoğlu M., TEKSTİL MATERYALLERİNİN SU İTİCİLİK ÖZELLİKLERİNİN OBJEKTİF ÖLÇÜLMESİ İÇİN GELİŞTİRİLMİŞ YÖNTEM, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2023/018972 , Standard Registration, 2024

## Metrics

Publication: 83

Citation (WoS): 295

Citation (Scopus): 337

H-Index (WoS): 9

H-Index (Scopus): 9

## **Non Academic Experience**

ADLI YARGI KURULUŞLARI

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