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Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Malzeme Bilimi ve Mühendisliği, Turkey 2011 - 2017

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Textile Education, Turkey 2008 - 2011

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Tekstil Mühendisliği, Turkey 2004 - 2008

Dissertations

Doctorate, Development and Characterization of Conductive Polymer- Nanoparticle Nanocomposites for Electromagnetic Shielding Application, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Polianilin poliester (PANI/PES) ve polianilin poliamid (PANI/PA) kompozit kumaşlarının oluşturulması, elektromanyetik kalkanlama etkinliklerinin ve mekanik özelliklerinin incelenmesi, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2011

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Textile Engineering, 2023 - Continues

Research Assistant, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı, Tekstil Mühendisliği, 2013 - 2018

Lecturer, Istanbul Aydın University, Faculty Of Engineering-Architecture, Department Of Textile Engineering, 2011 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electrochemical and semiconducting properties of multifunctional smart conductive fabrics based on polypyrrole**
Sagirli F. Z., Karazehir T., Sarac A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.141, no.22, 2024 (SCI-Expanded)
- II. **Polypyrrole/barium titanate/poly(acrylonitrile-co-methylacrylate)-deposited cotton fabrics: Electromagnetic shielding**
Sagirli F. Z., Kayali E. S., Sarac A. S.

- JOURNAL OF INDUSTRIAL TEXTILES, vol.47, no.5, pp.656-673, 2018 (SCI-Expanded)
- III. **In-situ preparation and characterization of pyrrole and tert-butyl 1-pyrrole-carboxylate on barium titanate/poly(acrylonitrile-co-methylacrylate) nanoparticles**
Sagirlı F. Z., Unsal C., Kayalı E. S., Sarac A. S.
REACTIVE & FUNCTIONAL POLYMERS, vol.100, pp.1-11, 2016 (SCI-Expanded)
- IV. **Electrochemical Impedance Spectroscopic Study on Polypyrrole/Barium Titanate/Poly(acrylonitrile-co-methylacrylate) Nanoparticles**
Sagirlı F. Z., Kayalı E. S., Sarac A. S.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, no.3, 2016 (SCI-Expanded)
- V. **Development and characterisation of polyaniline/polyamide (PANI/PA) fabrics for electromagnetic shielding**
Engin F. Z., USTA İ.
JOURNAL OF THE TEXTILE INSTITUTE, vol.106, no.8, pp.872-879, 2015 (SCI-Expanded)
- VI. **Electromagnetic shielding effectiveness of polyester fabrics with polyaniline deposition**
Engin F. Z., USTA İ.
TEXTILE RESEARCH JOURNAL, vol.84, no.9, pp.903-912, 2014 (SCI-Expanded)
- VII. **FMEA analysis and applications in knitting industry**
Özyazgan V., Engin F. Z.
Tekstil ve Konfeksiyon, vol.23, no.3, pp.228-232, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Textile Waste and Chemical Recycling Applications**
Sağırılı F. Z.
International Technical Textiles and Nonwoven Technologies Magazine, no.76, pp.56-62, 2023 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Chemical Recycling Technologies for Polyester Based Textile Wastes**
Sağırılı F. Z., Usta İ.
TESTEG2023, Gaziantep, Turkey, 13 - 15 October 2023, pp.525-526
- II. **Seramik Nanopartikül Takviyeli Polimer Kompozitleri**
SAĞIRLI F. Z., KAYALI E. S., SARAÇ A. S.
1. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 13 - 14 May 2016
- III. **ELECTROSPINNING AND CHARACTERIZATION OF POLY ACRYLONITRILE CO METHYLACRYLATE NANOFIBERS**
SAĞIRLI F. Z., KAYALI E. S., SARAÇ A. S.
5th International Istanbul Textile Congress 2015: Innovative Technologies "Inspire to Innovate", 11 - 12 September 2015
- IV. **PREPARATION AND CHARACTERIZATION OF POLY PYRROLE DERIVATIVES**
SAĞIRLI F. Z., KAYALI E. S., SARAÇ A. S.
5th International Istanbul Textile Congress 2015: Innovative Technologies "Inspire to Innovate", 11 October - 12 September 2015
- V. **"The Effect of Surfactant Type on Poly (acrylonitrile-co-methylacrylate) latex Synthesizes"**
Sağırılı F. Z., Saraç A., Kayalı E., Ünsal C.
6th Future Technical Textile Conference 2014, İstanbul, Turkey, 15 - 18 October 2014, pp.98-99
- VI. **Electromagnetic Shielding Properties Of Polyaniline Deposited Polyamide Fabrics After Rewashing"**
Sağırılı F. Z., Usta İ.

7th International Textile, Clothing & Design Conference 2014,, Dubrovnik, Croatia, 5 - 08 October 2014,
pp.353-357

- VII. **The Effect of rewashing on electromagnetic shielding properties of polyaniline deposited fabrics**
ENGİN F. Z., USTA İ.
14th Autex World Textile Conference, 26 - 28 May 2014

Patent

Sağırılı F. Z., Saraç A., Kayalı E., Sağırılı M. F., İletken Polimer Kaplı Tekstil Malzemesi Üretim Yöntemi Ve Bu Yönteme Uygun Olarak Çalışan Bir Düzenek, Patent, CHAPTER D Textile; Paper, The Invention Registration Number: TR 2016 12778 B , Standard Registration, 2021