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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği, Turkey 2015 - Continues

Doctorate, Universiteit Gent, Department of Materials, Textiles and Chemical Engineering, Textile Engineering, Belgium 2019 - 2020

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği Bölümü, Turkey 2012 - 2015

Undergraduate, Istanbul Technical University, Tekstil Mühendisliği Bölümü, Turkey 2007 - 2012

Dissertations

Postgraduate, Nanoparticles and nanofibers of Poly(Acrylonitrile-co-Itaconic acid)/Polythiophene composites, İstanbul Teknik Üniversitesi, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü, 2015

Research Areas

Textile Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydrophobic silica-aerogel integrated polyacrylonitrile nanofibers**
Arat R., Başkan H., Özcan G., Altay P.
JOURNAL OF INDUSTRIAL TEXTILES, vol.51, no.3, 2022 (SCI-Expanded)
- II. **Nanocomposite structures of polypyrrole derivatives and poly (acrylonitrile-co-itaconic acid) produced by in situ polymerization as carbon nanofiber precursor**
Başkan H., Ismar E., Karakaş H., Sarac A. S.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.31, no.3, pp.536-543, 2020 (SCI-Expanded)

- III. **Electrospun nanofibers of poly (acrylonitrile-coitaconic acid)/silver and polyacrylonitrile/silver: In situ preparation, characterization, and antimicrobial activity**
Başkan H., Esentürk İ., Döşler S., Saraç A. S., Karakaş H.
Journal Of Industrial Textiles, vol.0, pp.1-31, 2019 (SCI-Expanded)
- IV. **A Novel Carbon Nanofiber Precursor: Poly(acrylonitrile-co-vinylacetate-co-itaconic acid) Terpolymer**
Can D. S., Başkan H., Gumrukcu S., Sarac A. S.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.19, no.7, pp.3844-3853, 2019 (SCI-Expanded)
- V. **Poly(acrylonitrile-co-itaconic acid)-poly(3,4-ethylenedioxythiophene) and poly(3-methoxythiophene) nanoparticles and nanofibres**
Başkan H., Ünsal C., Karakaş H., Saraç A. S.
BULLETIN OF MATERIALS SCIENCE, vol.40, no.5, pp.957-969, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design of an Electronic Chest-Band**
ATAKAN R., AÇIKGÖZ H., BAŞKAN H., ERYÜRÜK S. H., AKALIN N., KÖSE H., Li Y., KURŞUN BAHADIR S., KALAOĞLU F.
IOP Conference Series: Materials Science and Engineering, vol.254, pp.72002, 2017 (Scopus)
- II. **Running functional sport vest and short for e-textile applications**
BAŞKAN H., AÇIKGÖZ H., ATAĞAN R., ERYÜRÜK S. H., AKALIN N., KÖSE H., Li Y., KURŞUN BAHADIR S., KALAOĞLU F.
IOP Conference Series: Materials Science and Engineering, vol.254, pp.72004, 2017 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Poli(Akrilonitril-ko-İtakonik Asit)/Gümüş Nanopartikül Nanoliflerinin Koaksiyel Elektroelime Yöntemi ile Eldesi**
BAŞKAN H., Kalaoğlu Altan Ö. İ., De Clerck K., KARAKAŞ H.
İTÜ Ulusal Tekstil Kongresi ve II.Ar-Ge Günü, Turkey, 11 - 12 November 2020
- II. **Kardiyovasküler Hastalıkların Tedavisi için Polialkilen Tereftalat (PAT) Nanoliflerinin Üretimi**
BAŞKAN H., Şensu B., Van de Voorde B., De Vos L., Van Vlierberghe S., De Clerck K., KARAKAŞ H.
İTÜ Ulusal Tekstil Kongresi ve II.Ar-Ge Günü, Turkey, 11 - 12 October 2020
- III. **Production and Characterization of Electrospun P(AN-co-IA)/Ag Nanofibers**
Başkan H., Karakaş H.
ANNIC, Berlin, Germany, 22 - 24 October 2018, pp.10-11
- IV. **Conducting Polymer Thin Films and Nanofibers as Humidity Sensor**
Başkan H., Karakaş H., SARAC A. S., Moustakas C. C.
Autex 2018, İstanbul, Turkey, 20 - 22 June 2018, pp.5
- V. **Design and Production of Tailored Rear Trunk Covering for Acoustic Applications**
Başkan H., Isik B., Erarslan E., Ejder P., Sezer S., Karakaş H.
18th World Textile Conference (AUTEX), İstanbul, Turkey, 20 - 22 June 2018, vol.460
- VI. **Biological Applications of Electrospun Polyurethane Nanofibers**
Başkan H., Karakaş H., Saraç A. S.
IITAS, İzmir, Turkey, 26 - 28 October 2017, pp.367-369
- VII. **The Suitable AgNO₃ Amount for P(AN-co-IA)/Ag Nanocomposite**
Başkan H., Karakaş H., Saraç A. S.
ITMC 2017, Gent, Belgium, 16 - 18 October 2017, pp.1-5
- VIII. **A NEW ROUTE FOR FABRICATION OF SMART MILITARY CLOTHING WITH ANTIBACTERIAL AND ELECTROMAGNETIC INTERFERENCE SHIELDING PROPERTIES**
BAŞKAN H., KARAKAŞ H., SARAÇ A. S.

IX. Uluslararası Ar-Ge Proje Pazarı, 27 - 28 April 2017

- IX. The Effect of Pyrrole Amount on the Diameter of Poly Acrylonitrile co Itaconic Acid Polypyrrole Nanofibers**
Başkan H., Karakaş H., Saraç A. S.
Fiber Society 2015, Raleigh, United States Of America, 28 - 30 October 2015, pp.120
- X. Electrochemical Impedance Study of Poly Acrylonitrile co Itaconic Acid PEDOT Nanofibers**
Başkan H., Karakaş H., Saraç A. S.
Fiber Society 2015, Raleigh, United States Of America, 28 - 30 October 2015, pp.125
- XI. Spectroscopic and Morphologic Study of Poly Acrylonitrile co Itaconic Acid Poly 3 4 Ethylenedioxythiophene Nanoparticles**
Başkan H., Saraç A. S., Karakaş H.
5 th International Istanbul Textile Congress, İstanbul, Turkey, 11 - 12 September 2015, pp.44-48
- XII. Nanoparticles and Nanofibers of Poly Acrylonitrile Co Itaconic Acid with Pyrrole Derivatives and Their Characterization**
Başkan H., İşmar Şir E., Saraç A. S., Karakaş H.
5 th International Istanbul Textile Congress, İstanbul, Turkey, 11 - 12 September 2015, pp.167
- XIII. Electrospun Nanofibers of PAN Poly Acrylonitrile co Itaconic Acid Poly 3 Methoxythiophene Blend**
Başkan H., Karakaş H., Saraç A. S.
Nanofibers, Applications and Related Technologies 2015, Liberec, Czech Republic, 31 August - 02 September 2015, pp.146
- XIV. The Effect of Electrospinning Parameters on PCL(Polycaprolactone) Electrospun Nanofiber Mats.**
Başkan H., Saraç A. S., Karakaş H.
Polymar 2013, Barselona, Spain, 3 - 07 November 2013, pp.192-193
- XV. Durability of Leather Effect on Plasma Pre Treated and Polyurethane Coated Denim Fabric**
ARMAĞAN O. G., Başkan H., Karagüzel Kayaoğlu B., Karakaş H.
International Istanbul Textile Congress 2013, İstanbul, Turkey, 30 - 31 May 2013, pp.27-29

Expert Reports

I. İETT Personel Kıyafeti Projesi

Karakaş H., Uçar N., Gürsoy N. Ç., Altay P., Başkan H., Görgün B., Açıkgöz Tufan H.
İETT, pp.25, İstanbul, 2015

Supported Projects

Karakaş H., Başkan H., Project Supported by Higher Education Institutions, Elektroeğirme Yöntemi ile MetalMetaloksit ve İletken Polimer İçeren Kompozit Nanolif Üretimi, 2018 - 2021
Başkan H., Kurşun Bahadır S., H2020 Project, Welding of E-Textiles for Interactive Clothing (ETexWeld), 2015 - 2019
Başkan H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Engelliler için Tekstil Tasarımı Merkezi, 2014 - 2015

Patent

Saraç A. S., Başkan H., Karakaş H., Method of forming a composite nanoparticle for nanofibers from a poly-(acrylonitrile-co-itaconic acid) poly 3-methoxythiophene (P(AN-co-IA)-PMOT) nano composite solution, Patent, CHAPTER D Textile; Paper, The Invention Registration Number: US10781277B2 , Standard Registration, 2020

Scientific Refereeing

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, July 2019

Tasks In Event Organizations

Başkan H., AUTEX 2018, Scientific Congress, İstanbul, Turkey, Haziran 2018

Başkan H., 5 th Istanbul Textile Congress, Scientific Congress, İstanbul, Turkey, Eylül 2015

Başkan H., Istanbul Textile Congress 2013, Scientific Congress, İstanbul, Turkey, Mayıs 2013

Metrics

Publication: 33

Citation (WoS): 12

Citation (Scopus): 33

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

Nano-TR Student, Attendee, İstanbul, Turkey, 2013

Scholarships

2211-A Yurtiçi Doktora Bursu, TUBITAK, 2015 - Continues

2214-A Doktora Sırası Yurtdışı Araştırma Bursu, TUBITAK, 2019 - 2020

Awards

Başkan H., Medikal Tekstiller 2. lik, 8. Uluslararası Ar-Ge Proje Pazarı, May 2016