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Education Information

Doctorate, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey 2015

- Continues

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri

Anabilim Dalı, Turkey 2014 - Continues

Postgraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü,
Turkey 2012 - 2014

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü,
Turkey 2007 - 2012

Biography

Yusuf Polat received his Bachelor Degree in Mechanical Engineering Department from Istanbul Technical University in 2012. In 2015 obtained the MsC. degree in Materials and Manufacturing Program of mechanical engineering from ITU, and in 2015 he started his professional life as a research assistant in Mechanical Engineer department at Marmara University.

Dissertations

Postgraduate, ÇÖZELTİDEN ÜFLEME TEKNİĞİ İLE YENİ TİP FİLTRE VE MEMBRANLARIN GELİŞTİRİLMESİ, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2014

Research Areas

Mechanical

Academic Titles / Tasks

Research Assistant, Marmara University, Faculty of Engineering, Mechanical Engineering, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Effect of solution blown nanofibers on Mode-I fracture toughness and dynamic mechanical properties of carbon fiber-reinforced composites
POLAT Y., EKİCİ B., Kılıç A.
POLYMER COMPOSITES, vol.42, no.10, pp.5445-5454, 2021 (SCI-Expanded)
- II. Mechanical and dynamic mechanical thermal properties of ensete fiber/woven glass fiber fabric hybrid composites
Negawo T. A., Polat Y., Akgul Y., Kılıç A., Jawaaid M.
COMPOSITE STRUCTURES, vol.259, 2021 (SCI-Expanded)
- III. Structure and performance of electroblown PVDF-based nanofibrous electret filters
Al Rai A., Stojanovska E., Fidan G., Yetgin E., Polat Y., Kılıç A., Demir A., Yılmaz Ş.
POLYMER ENGINEERING AND SCIENCE, vol.60, no.6, pp.1186-1193, 2020 (SCI-Expanded)
- IV. Effect of air pressure on nanofiber production in solution blowing method
POLAT Y., YANGAZ M. U., Calisir M. D., GÜL M. Z., Demir A., EKİCİ B., Kılıç A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.4, pp.1719-1728, 2020 (SCI-Expanded)
- V. Solution blown polymer/biowaste derived carbon particles nanofibers: An optimization study and energy storage applications
Stojanovska E., Ozturk N. D., Polat Y., Akbulut H., Kılıç A.
JOURNAL OF ENERGY STORAGE, vol.26, 2019 (SCI-Expanded)
- VI. Solution blown nanofibrous air filters modified with glass microparticles
Polat Y., Calisir M., Gungor M., Sagirli M. N., Atakan R., AKGÜL Y., Demir A., Kılıç A.
JOURNAL OF INDUSTRIAL TEXTILES, 2019 (SCI-Expanded)
- VII. Centrifugally spun silica (SiO₂) nanofibers for high-temperature air filtration
Tepekirhan B. N., Calisir M. D., Polat Y., Akgul Y., Kılıç A.
AEROSOL SCIENCE AND TECHNOLOGY, vol.53, no.8, pp.921-932, 2019 (SCI-Expanded)
- VIII. Mechanical, morphological, structural and dynamic mechanical properties of alkali treated Ensete stem fibers reinforced unsaturated polyester composites
Negawo T. A., Polat Y., Buyuknalcaci F. N., Kılıç A., Saba N., Jawaaid M.
COMPOSITE STRUCTURES, vol.207, pp.589-597, 2019 (SCI-Expanded)
- IX. Solution blowing of thermoplastic polyurethane nanofibers: A facile method to produce flexible porous materials
Polat Y., Pampal E. S., Stojanovska E., ŞİMŞEK R., Hassanin A., Kılıç A., Demir A., Yılmaz Ş.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.9, 2016 (SCI-Expanded)
- X. A review on non-electro nanofibre spinning techniques
Stojanovska E., CANBAY E., PAMPAL E. Ş., ÇALIŞIR M. D., Ağma O., POLAT Y., ŞİMŞEK R., Gündoğdu S., AKGÜL Y., KILIÇ A.
RSC ADVANCES, vol.6, no.87, pp.83783-83801, 2016 (SCI-Expanded)
- XI. Ultrasonic coating of nanofibrous webs: a feasible approach to photocatalytic water filters
ŞİMŞEK R., POLAT Y., PAMPAL E. Ş., Ağma O., KILIÇ A.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.13, no.1, pp.89-95, 2016 (SCI-Expanded)

Books & Book Chapters

- I. Nanofibrous composite air filters
AKGÜL Y., POLAT Y., CANBAY GÖKÇE E., DEMİR A., KILIÇ A.
in: Polymer-based Nanocomposites for Energy and Environmental Applications, Mohammad Jawaaid Mohammad Mansoob Khan, Editor, Woodhead Publishing, pp.553-567, 2018
- II. Carbon Nanotube-based Nanocomposites for Wind Turbine Applications
Büyüknalçacı F., POLAT Y., Negowa T., Doner E., Alam M., Hamouda T., KILIÇ A.

- in: Polymer-based Nanocomposites for Energy and Environmental Applications, Mohammad Jawaid, Mohammad Mansoob Khan, Editor, Woodhead Publishing, pp.635-661, 2018
- III. Lignin as an Additive for Advanced Composites**
 POLAT Y., Stojanovska E., Negowa T., Döner E., KILIÇ A.
 in: Green Biocomposites Manufacturing and Properties, Mohammad Jawaid, Salit Mohd Sapuan, Othman Y. Alothman, Editor, Springer, Berlin, pp.71-89, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. Production of TPU/PAN Composite Fibrous Medias for Air Filtration Applications**
 AKGÜL Y., ÇALIŞIR M. D., Tepekiran B. N., POLAT Y., KILIÇ A.
 5. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 03 May 2019
- II. Electrostatic-assisted centrifugal spinning of PVP Fibers**
 GÜNGÖR M., POLAT Y., AKGÜL Y., ÇALIŞIR M. D., KILIÇ A.
 5. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 03 May 2019
- III. Effect of Pressurized Air on Production of Nanofibers via Centrifugal Spinning**
 ÇALIŞIR M. D., GÜNGÖR M., AKGÜL Y., POLAT Y., KILIÇ A.
 5. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 03 May 2019
- IV. Development of Crystal Cleavage for Low Molecular Weight Linear Polymer**
 Seyhan A., Tepekiran B., POLAT Y., KILIÇ A., DEMİR A., AVCI H.
 5th International Fiber and Polymer Research Symposium, Turkey, 2 - 03 May 2019
- V. A Novel Nanofiber Production Technique: Solution Blowing and Its Energy Storage Applications**
 POLAT Y., Stojanovska E., ÇALIŞIR M. D., AKGÜL Y., KILIÇ A.
 18 th AUTEX World Textile Conference, İstanbul, Turkey, 20 - 22 June 2018
- VI. A Feasibility Study on the Centrifugal Spinning Method: Nanofibers for the High Performance Air Filters**
 AKGÜL Y., POLAT Y., ÇALIŞIR M. D., Stojanovska E., KILIÇ A., DEMİR A.
 18 th AUTEX World Textile Conference, İstanbul, Turkey, 20 - 22 June 2018
- VII. Investigating the Effect of Air Pressure of Novel Nanofiber Production Technique: Solution Blowing**
 POLAT Y., YANGAZ M. U., STOJANOVSKA E., DEMİR A., KILIÇ A.
 3. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 8 - 09 March 2018
- VIII. Surface Modification and its Effect on Ensete Fiber Characteristics**
 Negowa T., POLAT Y., DEMİR A., Hassanin A., Hamouda T., CANDAN Z., KILIÇ A.
 3. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 8 - 09 March 2018
- IX. Production of PAN/HA Composite Nanofibers as Precursor Material for Biomedical Applications**
 AKGÜL Y., ÇALIŞIR M. D., Stojanovska E., POLAT Y., AHLATCI H., DEMİR A., KILIÇ A.
 3rd International Fiber and Polymer Research Symposium, 8 - 09 March 2018
- X. Design of Solution Blown Nanofibrous Air Filters Containing Glass Particles**
 POLAT Y., Stojanovska E., ÇALIŞIR M. D., AKGÜL Y., güngör m., Sağırlı M., ATAKAN R., DEMİR A., KILIÇ A.
 3rd International Fiber and Polymer Researches Symposium, Bursa, Turkey, 8 - 09 March 2018
- XI. Elyaf Sarma ile Üretilen Kompozit Basınçlı Kapların Farklı Yüklemelerde Modelleme**
 Pehlivan A., POLAT Y., KILIÇ A.
 2. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 27 - 28 April 2017
- XII. Termoset Polimer Reçine Karışım Oranlarının Ürün Performansı ve Maliyeti Açısından Optimize Edilmesi**
 Doner E., POLAT Y., KILIÇ A.
 2. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 27 - 28 April 2017
- XIII. Development of Nanofibrous Water Filters via Novel Large Scale Method Solution Blowing**
 POLAT Y., Gökcə A., Mustafa K., AKGÜL Y., KILIÇ A.
 NanoTR-12: 12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016

- XIV. **Endüstriyel Uygulamalar için Çözeltiden Üfleme Yöntemi ile Üretilen Nanoliflerin Çap ve Morfoloji Optimizasyonu**
POLAT Y., DEMİR A., KILIÇ A.
1. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 13 - 14 May 2016
- XV. **Use of Natural Fibers for 3D Composites via Filament Winding**
Alam M., POLAT Y., KILIÇ A.
1. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 13 - 14 May 2016
- XVI. **Functional Coatings for Nanofibrous Purification Membrane**
ŞİMŞEK R., POLAT Y., PAMPAL E. Ş., Onur A., DEMİR A., KILIÇ A.
NONWOVENSINNOVATION ACADEMY 2015, 5 - 06 November 2015
- XVII. **Functional coatings for nanofibrous water purification membranes**
ŞİMŞEK R., POLAT Y., PAMPAL E. Ş., ONUR A., DEMİR A., KILIÇ A.
NIA 2015: Nonwovens Innovation Academy, 5 - 06 November 2015
- XVIII. **Karbon Metal Oksit Liflerle Perovskit Güneş Pili**
KILIÇ A., ÇALIŞIR M. D., DEMİR A., PAMPAL E. Ş., POLAT Y., ŞİMŞEK R.
VII. UTİB ULUSLARARASI AR-GE PROJE PAZARI, 27 - 29 May 2015
- XIX. **NANOLİFLER ENDÜSTRİYELLEŞİYOR 30 KAT DAHA HIZLI NANOLİF NONWOVEN ÜRETİMİ**
KILIÇ A., POLAT Y.
VII. UTİB ULUSLARARASI AR-GE PROJE PAZARI, 27 - 29 May 2015
- XX. **Tekstil Atıksularının Fotokataliz Teknolojilerle Temizlenmesi**
KILIÇ A., ONUR A., MUSTAFA K., DEMİR A., POLAT Y.
VII. UTİB ULUSLARARASI AR-GE PROJE PAZARI, 27 - 29 May 2015
- XXI. **Karbon nanotüpelerin nanolif filtrelerde fotokatalitik performans etkisinin incelenmesi**
Küçüksarı A., Ağma O., Demir E., POLAT Y., KILIÇ A., CEBECİ H.
1. Ulusal Karbon Konferansı, Turkey, 12 - 13 March 2015
- XXII. **Parameter study for TPU nanofibers fabricated via centrifugal spinning**
AKGÜL Y., POLAT Y., CANBAY E., KILIÇ A.
ICNN 2015: XIII International Conference on Nanochemistry and Nanoengineering, 13 - 14 January 2015
- XXIII. **Producing TPU Propolis nanofibrous membrane as wound dressing**
AKGÜL Y., POLAT Y., CANBAY E., KILIÇ A.
ICPAM 2015: XIII International Conference on Polymers and Advanced Materials, 8 - 09 January 2015
- XXIV. **Design of polyamide nanofiber air filter media with glass particles**
ATAKAN R., PAMPAL E. Ş., POLAT Y., DEMİR A., KILIÇ A.
CIRAT-6 International Conference of Applied Research on Textile, 13 - 15 November 2014
- XXV. **Optimum design of a flat coat hanger die for spunbond nonwoven production process**
YILMAZ O., ÖZNERGİZ E., POLAT Y., KOCABAŞ H., YILMAZ Ş.
MAT 2014 3rd International Scientific Conference on Engineering "Manufacturing and Advanced Technologies, 18 - 20 September 2014
- XXVI. **A comparative study on nanofiber production techniques Electrospinning and solution blowing examples**
POLAT Y., AKGÜL Y., Yalçın H., KILIÇ A., YILMAZ Ş., DEMİR A.
ANM 2014 5th International conference on Advanced Nanomaterials, 2 - 04 July 2014
- XXVII. **Methylene blue degredation via modified photocatalytic water filters**
CANBAY E., POLAT Y., ŞİMŞEK R., Küçüksarı A., PAMPAL E. Ş., Yalçın H., Ağma O., CEBECİ H., KILIÇ A.
ANM 2014 5th International conference on Advanced Nanomaterials, 2 - 04 July 2014
- XXVIII. **Methylene blue degredation over ultrasonically modified photocatalytic water filters**
ŞİMŞEK R., PAMPAL E. Ş., POLAT Y., Ağma O., KILIÇ A.
AUTEX 2014 World Textile Conference, 26 - 28 June 2014
- XXIX. **Fabrication of thermoplastic polyurethane propolis composite nanofibrous membrane for wound dressing applications**
AKGÜL Y., Yalçın H., PAMPAL E. Ş., POLAT Y., KILIÇ A.

Patent

POLAT Y., Dokusuz kumaş üretimi için tek yönlü üfleme sistemi ve yöntemi, Patent, CHAPTER D Textile; Paper, Standard Registration, 2017

POLAT Y., A centrifugal spinning device used for nanofiber/microfiber production, Patent, CHAPTER D Textile; Paper, Standard Registration, 2017

Metrics

Publication: 43

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Citation (Scopus): 211

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H-Index (Scopus): 6