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Research Areas

Technical Textiles

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Tekstil Teknolojileri ve Tasarımı, Tekstil Mühendisliği, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimization of Electrospun Bilayer Vascular Grafts through Assessment of the Mechanical Properties of Monolayers**
Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş İ.
ACS Biomaterials Science and Engineering, vol.10, no.2, pp.960-974, 2024 (SCI-Expanded)
- II. **Investigation of biodegradability and cellular activity of PCL/PLA and PCL/PLLA electrospun webs for tissue engineering applications**
Öztemur J., Özdemir S., Tezcan-Unlu H., ÇEÇENER G., Sezgin H., Yalçın Eniş İ.
Biopolymers, vol.114, no.11, 2023 (SCI-Expanded)
- III. **An Investigation of the Constructional Design Components Affecting the Mechanical Response and Cellular Activity of Electrospun Vascular Grafts**
Özdemir S., Yalçın Eniş İ., Yalçınkaya F., Yalçınkaya B.
MEMBRANES, vol.12, no.10, pp.1-27, 2022 (SCI-Expanded)
- IV. **Effect of blending ratio on morphological, chemical, and thermal characteristics of PLA/PCL and PLLA/PCL electrospun fibrous webs**
Öztemur J., Yalçın Eniş İ., Özdemir S.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS, vol.0, no.0, pp.1-11, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **A PRELIMINARY STUDY EXAMINING THE BURST STRENGTH OF VASCULAR TUBULAR SCAFFOLDS**
Öztemur J., Özdemir S., Sezgin H., Yalçın Eniş İ.
Vlakna a Textil, vol.30, no.1, pp.72-75, 2023 (Scopus)
- II. **THE EFFECT OF POLYMER TYPE AND FIBER ORIENTATION ON THE COMPLIANCE PROPERTIES OF**

ELECTROSPUN VASCULAR GRAFTS

Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş İ.

Vlakna a Textil, vol.30, no.1, pp.67-71, 2023 (Scopus)

Books & Book Chapters

I. Hydrogel-based vascular grafts: State of art

ÖZTEMUR J., ÖZDEMİR S., SEZGİN H., YALÇIN ENİŞ İ.

in: Sustainable Hydrogels, Sabu Thomas, Bhasha Sharma, Purnima Jain, Shashank Shekhar, Editor, Elsevier, pp.397-442, 2023

Refereed Congress / Symposium Publications in Proceedings

I. INFLUENCE OF POLYMER TYPE AND BLENDING ON MECHANICAL PROPERTIES OF COAXIAL ELECTROSPUN VASCULAR GRAFTS

Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş İ.

NANOCON, Brno, Czech Republic, 18 October - 20 December 2023, pp.1-6

II. A Preliminary Study Examining the Impact of Biomaterial Selection and Fiber Orientation on the Bursting Strength of Vascular Grafts

Öztemur J., Özdemir S., Sezgin H., Yalçın Eniş I.

STRUTEX-23th Structure and Structural Mechanics of Textiles, Liberec, Czech Republic, 30 November 2022, pp.97-101

III. The Effect Polymer Type and Fiber Orientation on the Compliance Properties of Electrospun Vascular Grafts

Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş I.

STRUTEX-23th Structure and Structural Mechanics of Textiles, Liberec, Czech Republic, 30 November 2022, pp.91-96

IV. Tam Faktöriyel Deneysel Tasarım Yöntemi ile Doku İskelesi Tasarımlarında Öne Çıkan Parametrelerin Lif Çapı Üzerindeki Etkilerinin İncelenmesi

Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş I.

Ulusal Çukurova Tekstil Kongresi, Adana, Turkey, 29 - 30 September 2022, pp.532-539

V. The Investigation of the Effect of Polymer Blending and Radial Fiber Orientation on the Tensile Properties of Electrospun Tubular Vascular Prostheses

ÖZDEMİR S., ÖZTEMUR J., SEZGİN H., YALÇIN ENİŞ İ.

CORTEP-18th Romanian Textiles and Leather Conference, Bükreş, Romania, 17 November 2022

VI. A pre-liminary study on the effect of PCL/PLA blend ratio on tensile strength of tubular vascular scaffolds

Özdemir S., Öztemur J., Sezgin H., Yalçın Eniş I.

1st International Conference on Innovative Academic Studies (ICIAS 2022), Konya, Turkey, 10 September 2022, pp.1070-1073

VII. Multilevel Full Factorial Design in Optimizing Polymer Type and Blend Ratio for PLA/PCL and PLLA/PCL Electrospun Webs

ÖZTEMUR J., ÖZDEMİR S., SEZGİN H., YALÇIN ENİŞ İ.

AUTEX 2022, Lodz, Poland, 7 - 10 June 2022

VIII. The comparison of morphological and mechanical properties of electrospun surfaces made of PCL, PLA and their blend

Özdemir S., Yalçın Eniş I.

International Conference on Emerging Sources in Science, İstanbul, Turkey, 26 - 27 May 2022, pp.68-75

IX. Investigation of Polymer Concentration on Physical and Morphological Properties of PLLA Based

Fibrous Structures

ÖZDEMİR S., ÖZTEMUR J., SEZGİN H., YALÇIN ENİŞ İ.

International Conference on Radiation Applications, 06 September 2021

Supported Projects

Yalçın Eniş İ., Sezgin H., Çeçener G., Yolgösteren A., Nas Ö. F., Gül Satar N. Y., TUBITAK Project, Biyobozunur polimerik liflerden üretilmiş çift katmanlı küçük kalibreli vasküler greftlerin domuz karotis arterine uzun dönem implantasyonu ile otogreft oluşumunun gözlenmesi ve pre-klinik sürecin bütünsel analizi Observation of autograft formation with long-term implantation of bilayer small-caliber vascular grafts made of biodegradable polymeric fibers into the porcine carotid artery and a holistic analysis of the pre-clinical process, 2021 - 2024

Yalçın Eniş İ., Özdemir S., Project Supported by Higher Education Institutions, KÜÇÜK ÇAPLI FİBRÖZ VASKÜLER GREFTLERİN MEKANİK ÖZELLİKLERİNİN İNCELENMESİ, 2021 - 2023

Metrics

Publication: 17

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