

## Assoc. Prof. YASEMİN SEKİ

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### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (Dr), Turkey 2010 - 2016

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, Turkey 2003 - 2007

### Dissertations

Doctorate, Doğal lif takviyeli kompozit liflerin üretim ve kullanım özelliklerinin araştırılması, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (Dr), 2016

Postgraduate, Kaplamalı giysilik kumaşların mekanik özellikleri, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (YI) (Tezli), 2010

### Research Areas

Textile Chemistry

### Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, 2009 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The impact of physicochemical treatments on the characteristics of Ampelodesmos mauritanicus plant fibers**  
Moussaoui N., Benhamadouche L., SEKİ Y., Amroune S., Dufresne A., Jawaid M., Fouad H.  
Cellulose, vol.30, no.12, pp.7479-7495, 2023 (SCI-Expanded)
- II. **Interfacial adhesion strength between FDM-printed PLA parts and surface-treated cellulosic-woven fabrics**  
DEMİR M., SEKİ Y.  
Rapid Prototyping Journal, vol.29, no.6, pp.1166-1174, 2023 (SCI-Expanded)
- III. **Imidazolium and Ammonium-Based Ionic Liquids for Reactive Dyeing**  
Ozdemir H. N., Kartal G. E., Keskin Ö. Y., Seki Y.  
TEKSTİL VE KONFEKSİYON, no.3, pp.269-276, 2023 (SCI-Expanded)

- IV. **The Effect of Wastes of Nettle Fiber on Mechanical and Thermal Properties of Polypropylene Composite**  
Altay L., Atagür M., Sever K., SEKİ Y., Yilmazkarasu H., Oruç A., Toprak H., SEKİ Y., SARIKANAT M., Bozaci E.  
Journal of Natural Fibers, vol.20, no.1, 2023 (SCI-Expanded)
- V. **Experimental Investigation of the Absorption Behavior of Date Palm Fiber Reinforced Iso-Polyester Composites: Artificial Neuron Network (ANN) Modeling**  
Benyettou R., Amroune S., Mohamed S., SEKİ Y., Dufresne A.  
JOURNAL OF NATURAL FIBERS, vol.19, no.17, pp.15902-15918, 2022 (SCI-Expanded)
- VI. **Assessment of induced delamination drilling of natural fiber reinforced composites: a statistical analysis**  
Benyettou R., Amroune S., Slamani M., SEKİ Y., Dufresne A., Jawaid M., Alamery S.  
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.21, pp.131-152, 2022 (SCI-Expanded)
- VII. **Extraction and Characterization of Natural Cellulosic Fiber from Taraxacum Sect. Ruderalia**  
Köktaş S., Keskin Ö. Y., Dalmış R., Seki Y., Kilic G.  
JOURNAL OF NATURAL FIBERS, no.16, pp.14328-14336, 2022 (SCI-Expanded)
- VIII. **Natural cellulosic fiber from Carex panicea stem for polymer composites: extraction and characterization**  
KESKİN Ö. Y., KÖKTAŞ S., SEKİ Y., DALMIŞ R., Kilic G., Albayrak D.  
BIOMASS CONVERSION AND BIOREFINERY, 2022 (SCI-Expanded)
- IX. **A review on alternative raw materials for sustainable production: novel plant fibers**  
SEKİ Y., Selli F., ERDOĞAN Ü. H., Atagur M., SEYDİBEYOĞLU M. Ö.  
CELLULOSE, vol.29, no.9, pp.4877-4918, 2022 (SCI-Expanded)
- X. **Investigation of mechanical, physicochemical, and thermal properties of new fiber from Silybum marianum bark fiber**  
Laifa F., Rokbi M., Amroune S., Zaoui M., SEKİ Y.  
JOURNAL OF COMPOSITE MATERIALS, vol.56, no.14, pp.2227-2238, 2022 (SCI-Expanded)
- XI. **Quantitatively Investigating the Effects of Fiber Parameters on Tensile and Flexural Response of Flax/Epoxy Biocomposites**  
Amroune S., Belaadi A., Dalmış R., Seki Y., Makhlof A., Satha H.  
JOURNAL OF NATURAL FIBERS, vol.19, no.6, pp.2366-2381, 2022 (SCI-Expanded)
- XII. **Extraction and Characterization of a New Lignocellulosic Fiber from Yucca Treculeana L. Leaf as Potential Reinforcement for Industrial Biocomposites**  
Belaadi A., Amroune S., SEKİ Y., KESKİN Ö. Y., KÖKTAŞ S., Bourchak M., Dufresne A., Fouad H., Jawaid M.  
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- XIII. **Extraction and characterization of cellulosic fiber from Centaurea solstitialis for composites**  
KESKİN Ö. Y., DALMIŞ R., BALCI KILIÇ G., SEKİ Y., KÖKTAŞ S.  
CELLULOSE, vol.27, no.17, pp.9963-9974, 2020 (SCI-Expanded)
- XIV. **Characterization of a novel natural cellulosic fiber extracted from the stem ofChrysanthemum morifolium**  
DALMIŞ R., Kilic G., SEKİ Y., KÖKTAŞ S., KESKİN Ö. Y.  
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- XV. **Evaluating of reinforcing effect of Ceratonia Siliqua for polypropylene: Tensile, flexural and other properties**  
Atagur M., SEKİ Y., Oncu O., SEVER K., SEKİ Y., SARIKANAT M., ALTAY L.  
POLYMER TESTING, vol.89, 2020 (SCI-Expanded)
- XVI. **Surface resistivity, surface wettability and thermal stability of the 1-ethyl-2,3-dimethylimidazolium ethyl sulfate and methyl-tri-n-butylammonium methyl sulfate modified polyethylene**  
SEKİ Y., ALTINIŞIK TAĞAÇ A.  
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.59, no.7, pp.722-732, 2020 (SCI-Expanded)
- XVII. **Mechanical and thermal properties of Carpinus betulus fiber filled polypropylene composites**  
Atagur M., SEKİ Y., Pasaoglu Y., SEVER K., SEKİ Y., SARIKANAT M., ALTAY L.

- POLYMER COMPOSITES, vol.41, no.5, pp.1925-1935, 2020 (SCI-Expanded)
- XVIII. **Characterization of a new natural cellulose based fiber from Hierochloe Odarata**  
DALMIŞ R., KÖKTAŞ S., SEKİ Y., Kilinc A. Ç.  
CELLULOSE, vol.27, no.1, pp.127-139, 2020 (SCI-Expanded)
- XIX. **Implementation of imidazolium and ammonium based ionic liquids and the effect on electrical conductivity of polypropylene fabrics**  
SEKİ Y., ALTINIŞIK TAĞAÇ A.  
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.59, no.2, pp.130-140, 2020 (SCI-Expanded)
- XX. **Characterization of Flax, Jute, and Sisal Fibers after Sodium Perborate Modification**  
SEKİ Y., Kilinc A. Ç., DALMIŞ R., KÖKTAŞ S., Celik E.  
AATCC JOURNAL OF RESEARCH, vol.6, no.6, pp.25-31, 2019 (SCI-Expanded)
- XXI. **Green alternative treatment for cellulosic fibers: ionic liquid modification of Abelmoschus esculentus fibers with methyl-tri-n-butyl ammonium methyl sulphate**  
SEKİ Y., KÖKTAŞ S., Kilinc A. Ç., DALMIŞ R.  
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (SCI-Expanded)
- XXII. **Enhancement of Electrical Conductivity of Polyethylene Terephthalate (PET) Fabrics via Ionic Liquids**  
SEKİ Y.  
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.58, no.1, pp.70-76, 2019 (SCI-Expanded)
- XXIII. **Surface modification of new cellulose fiber extracted from Conium maculatum plant: a comparative study**  
SEKİ Y., Kilinc A. Ç., DALMIŞ R., Atagur M., KÖKTAŞ S., GÖKTAŞ A. A., Celik E., SEYDİBEYOĞLU M. Ö., ÖNAY A. B.  
CELLULOSE, vol.25, no.6, pp.3267-3280, 2018 (SCI-Expanded)
- XXIV. **Extraction and investigation of lightweight and porous natural fiber from Conium maculatum as a potential reinforcement for composite materials in transportation**  
Kilinc A. Ç., KÖKTAŞ S., SEKİ Y., Atagur M., DALMIŞ R., ERDOĞAN Ü. H., GÖKTAŞ A. A., Seydibeyoglu M. O.  
COMPOSITES PART B-ENGINEERING, vol.140, pp.1-8, 2018 (SCI-Expanded)
- XXV. **Conductive Cotton Fabrics Coated with Myristic Acid/Zinc Oxide Nanoparticles**  
Seki Y.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.57, no.8, pp.766-774, 2018 (SCI-Expanded)
- XXVI. **A review on fabric bagging: the concept and measurement methods**  
Sülar V., Bulut Y.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.109, no.4, pp.466-484, 2018 (SCI-Expanded)
- XXVII. **Construction of polypropylene composite multifilaments filled with sodium perborate trihydrate-treated jute microparticles**  
SEKİ Y., AKŞİT A., ERDOĞAN Ü. H.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.24, no.2, pp.203-212, 2017 (SCI-Expanded)
- XXVIII. **Development of Conductivity of Acrylic Polymer Using Ionic Liquids Incorporated with Zinc Oxide Nanoparticles**  
SEKİ Y., SEKİ Y.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.56, no.18, pp.1942-1948, 2017 (SCI-Expanded)
- XXIX. **Evaluation of linden fibre as a potential reinforcement material for polymer composites**  
SEKİ Y., SEKİ Y., SARIKANAT M., SEVER K., Durmuskahya C., BOZACI E.  
JOURNAL OF INDUSTRIAL TEXTILES, vol.45, no.6, pp.1221-1238, 2016 (SCI-Expanded)
- XXX. **Effect of Different Surface Treatments on the Properties of Jute**  
ERDOĞAN Ü. H., SEKİ Y., Aydogdu G., KUTLU B., AKŞİT A.  
JOURNAL OF NATURAL FIBERS, vol.13, no.2, pp.158-171, 2016 (SCI-Expanded)
- XXXI. **Evaluating of Agave Americana Fibers for Biosorption of Dye from Aqueous Solution**  
ALTINIŞIK TAĞAÇ A., SEKİ Y., Ertas S., Akar E., BOZACI E., SEKİ Y.  
FIBERS AND POLYMERS, vol.16, no.2, pp.370-377, 2015 (SCI-Expanded)
- XXXII. **A comparative study on seam performance of cotton and polyester woven fabrics**

Sülar V., Mesegul C., Kefsiz H., Seki Y.

JOURNAL OF THE TEXTILE INSTITUTE, vol.106, no.1, pp.19-30, 2015 (SCI-Expanded)

XXXIII. **An investigation on structural properties of jute particle doped polypropylene filaments**

ERDOĞAN Ü. H., Aydogdu G., KUTLU B., SEKİ Y., AKŞİT A.

INDUSTRIA TEXTILA, vol.66, no.5, pp.243-250, 2015 (SCI-Expanded)

XXXIV. **Manufacturing and Sewing Performance of Polyurethane and Polyurethane/Silicone Coated Fabrics**

Bulut Y., Sülar V.

MATERIALS AND MANUFACTURING PROCESSES, vol.28, no.1, pp.106-111, 2012 (SCI-Expanded)

XXXV. **Effects of process parameters on mechanical properties of coated fabrics**

Bulut Y., Sülar V.

INTERNATIONAL JOURNAL OF CLOTHING SCIENCE AND TECHNOLOGY, vol.23, no.4, pp.205-221, 2011 (SCI-Expanded)

## Articles Published in Other Journals

I. **STUDY ON NATURAL CELLULOSIC FIBER FROM POSIDONIA OCEANICA WASTE: CHARACTERIZATION AND ANALYSIS**

SEKİ Y., ÖZDEMİR H. N., TÜRKOĞLU G. C., AKÇALI B., NEŞER G.

TEKSTİL VE MUHENDİS, vol.30, pp.95-101, 2023 (Scopus)

II. **Comparison of moisture related properties of PET/CV blended nonwoven fabrics**

ERDOĞAN Ü. H., SEKİ Y.

Annals of the University of Oradea Fascicle of Textiles, Leatherwork, vol.19, no.1, pp.47-52, 2018 (Peer-Reviewed Journal)

III. **Hindistan Cevizi Liflerinin Yüzey Özelliklerine, Termal Bozunma Davranışlarına ve Yapısal Karakterizasyonuna Oksidatif Modifikasyonun Etkisi**

SEKİ Y.

Tekstil ve Mühendis, vol.25, no.111, pp.189-195, 2018 (Scopus)

IV. **Kompozit Malzeme Üretiminde Kullanılacak Bitkisel Liflerin Alkali Modifikasyonu Sonrası Morfolojik Ve Kimyasal Yapılarındaki Değişimin İncelenmesi**

SEKİ Y., SELLİ F., ŞEN K., ERDOĞAN Ü. H.

Tekstil ve Mühendis, vol.24, no.108, pp.222-232, 2017 (Scopus)

V. **General Properties and Performance Tests of Fabrics Produced by Coating and Lamination Techniques**

SEKİ Y., SÜLAR V.

The Journal of Textiles and Engineer, no.70-71, 2008 (Peer-Reviewed Journal)

VI. **General Properties and Performance Tests of Fabrics Produced by Coating and Lamination Techniques**

Bulut Y., Sülar V.

TEKSTİL VE MUHENDİS, vol.15, pp.5-16, 2008 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Wool fibres**

Erdoğan Ü. H., Seki Y., Selli F.

in: Handbook of Natural Fibres Volume 1: Types, Properties and Factors Affecting Breeding and Cultivation, Second Edition, Ryszard M. Kozłowski, Maria Mackiewicz-Talarczyk, Editor, Woodhead Publishing Limited, Cambridge, pp.257-278, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **Characterization of Mediterranean Seagrass Posidonia Oceanica (L.)**  
ÖZDEMİR H. N., TÜRKOĞLU G. C., SEKİ Y., NEŞER G.  
8th International Technical Textiles Congress (8th ITTC2022), İzmir, Turkey, 13 - 14 October 2022
- II. **Askeri amaçlı balistik eldivenlerin performanslarının kompozit lif ve kaplama ile geliştirilmesi**  
SEKİ Y., KARA Ş.  
UTİB Türkiye Tekstil ve Konfeksiyon Sektöründe X. Uluslararası AR-GE Proje Pazarı, Bursa, Turkey, 8 - 09 March 2018, pp.24
- III. **Kompozit malzeme üretiminde kullanılan Hindistan Cevizi liflerinin sodyum perborat tetrahidrat ile modifikasyonu ve karakterizasyonu**  
SEKİ Y., KILINÇ A. Ç., DALMIŞ R., KÖKTAŞ S.  
3.Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, 8 - 09 March 2018
- IV. **An alternative cellulose based natural fiber as a reinforcement material for polymeric composites**  
SEKİ Y., DALMIŞ R., ATAGÜR M., KILINÇ A. Ç., KÖKTAŞ S.  
ICCE-25, Roma, Italy, 16 - 22 July 2017
- V. **Kompozit Malzeme Üretiminde Destek Materyali Olarak Kullanılabilecek Yeni Selüloz Esaslı Conium Maculatum Liflerinin Karakterizasyonu ve Modifikasyonu**  
SEKİ Y., KILINÇ A. Ç., DALMIŞ R., ATAGÜR M., KÖKTAŞ S.  
2. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 27 - 28 April 2017
- VI. **Termal Yalıtkan-Elektriksel İletken Tekstil Esaslı Malzeme Geliştirilmesi**  
SEKİ Y., SEKİ Y.  
9.Uluslararası AR-GE Poje Pazarı, 27 - 28 April 2017
- VII. **Developing Surface Characterization of Jute Fibers via Hydrophobic Modification for Polymeric Doped Materials**  
SEKİ Y., AKŞİT A.  
21st International Conference STRUTEX 2016, Liberec, Czech Republic, 1 - 02 December 2016
- VIII. **Multifilaments spun from silicone oil treated jute polypropylene composite**  
SEKİ Y., AKŞİT A.  
AUTEX 2016, Ljubljana, Slovenia, 8 - 10 June 2016
- IX. **Kompozit Liflerde Takviye Malzemesi Dağılım ve Homojenliğinin Floresans Mikroskop ile Kontrolü**  
ERDOĞAN Ü. H., SEKİ Y., BALCI KILIÇ G.  
1. Uluslararası Lif ve Polimer Sempozyumu, 13 - 14 May 2016
- X. **Mechanical and Morphological Observation of Jute Fibers Modified With Different Chemical Agents**  
SEKİ Y., AKŞİT A.  
19.Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015
- XI. **Chemical modification of jute fibers with oxidative agents for usability as reinforcement in polymeric composites**  
SEKİ Y., AKŞİT A.  
ICCM 2015 17th International Conference on Composite Materials, Amsterdam, Netherlands, 6 - 07 August 2015
- XII. **An investigation on structural properties of jute particle doped polypropylene filaments**  
ERDOĞAN Ü. H., SEKİ Y., AYDOĞDU G., AKŞİT A., KUTLU B.  
15th Romanian Textiles and Leather Conference, Brasov, Romania, 4 - 06 September 2014
- XIII. **Study on preparation and characterization of polypropylene composite fibers with modified jute particles**  
SEKİ Y., AKŞİT A., ERDOĞAN Ü. H.  
ICCE-22, Twenty Second Annual International Conference on Composites/Nano Engineering, Malta, 13 - 15 July 2014
- XIV. **Detection of Natural Additives in Composite Filaments by Using Fluorescence Microscopy**  
ERDOĞAN Ü. H., SEKİ Y., KARTAL G. E., AKŞİT A., KUTLU B.  
1ST INTERNATIONAL CONFERENCE ON NATURAL FIBERS, 9 - 11 June 2013

- XV. **Investigating the possibilities of producing jute particle added polypropylene composite filaments**  
ERDOĞAN Ü. H., SEKİ Y., AKŞİT A., KUTLU B.  
AUTEX 2013 13th World Textile Conference, Dresden, Germany, 22 - 24 May 2013
- XVI. **The effects of different structural parameters on tensile and detaching from a needle performance of atraumatic surgical sutures**  
SÜLAR V., SEKİ Y.  
13th AUTEX World Textile Conference, Dresden, Germany, 22 - 24 May 2013
- XVII. **An investigation on structural properties of melt spun polypropylene jute composite fiber**  
SEKİ Y., ERDOĞAN Ü. H., AKŞİT A.  
12th AUTEX World Textile Conference, Zadar, Croatia, 14 - 16 June 2012
- XVIII. **Sewing performance of polyurethane and polyurethane silicone coated fabrics**  
SEKİ Y., SÜLAR V.  
12th AUTEX World Textile Conference, Zadar, Croatia, 13 - 15 June 2012
- XIX. **Effects of process parameters on mechanical properties of coated fabrics**  
Bulut Y., Sülar V.  
4th International Technical Textiles Congress, İstanbul, Turkey, 16 - 18 May 2010

## **Metrics**

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