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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAW-8645-2020

ScopusID: 56024052200

Yoksis Araştırmacı ID: 6377

Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1992 - 1998

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Türkiye 1989 - 1992

Lisans, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 1985 - 1989

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Polimer kaplı elektrodlar üzerinde anilin elektrokimyasal polimerizasyonu, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 1998

Yüksek Lisans, Tek katlı poli (etilen teraftalat) liflere vinil monomerlerinin aşılınması, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1992

Araştırma Alanları

Kimya, Fizikokimya

Akademik Unvanlar / Görevler

Prof. Dr., Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - Devam Ediyor

Doç. Dr., Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2003 - 2009

Araştırma Görevlisi, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1989 - 2003

Verdiği Dersler

KİM357 Fizikokimya Laboratuvarı, Lisans, 2018 - 2019

CHM215 Physical Chemistry I, Lisans, 2018 - 2019
CHM245 Introduction to Polymer Chemistry, Lisans, 2018 - 2019
KİM215 Fizikokimya I, Lisans, 2018 - 2019
CHM101 General Chemistry I, Lisans, 2018 - 2019, 2016 - 2017
KİM432 Kauçuk Kimyası ve Teknolojisi, Lisans, 2018 - 2019
Polimerlerin Analizi ve Karakterizasyonu, Yüksek Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
General Chemistry I, Lisans, 2017 - 2018
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CHM102 General Chemistry II, Lisans, 2017 - 2018, 2016 - 2017
Physical Chemistry II, Lisans, 2017 - 2018
FİZİKOKİMYA II, Lisans, 2015 - 2016, 2014 - 2015
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TEMEL KİMYA, Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005
ELEKTROİLETKEN POLİMERLER, Yüksek Lisans, 2015 - 2016
KAUÇUK KİMYASI, Lisans, 2014 - 2015
CHM102, Lisans, 2014 - 2015
Fizikokimya-II, Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Kauçuk Kimyası ve Teknolojisi, Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012
Fizikokimya-I, Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Yönetilen Tezler

KARAKIŞLA M., Glisidil metakrilat ve p-fenilendiaminin poliakrilonitril lif yüzeylerine aşılması ile yüzey özellikleri geliştirilmiş aşı kopolimer liflerin hazırlanması, karakterizasyonu ve bazı özelliklerinin incelenmesi, Yüksek Lisans, N.SEVEN(Öğrenci), 2020
KARAKIŞLA M., 2-hidroksietil metakrilat monomerinin akrilik tekstil liflerine aşılması ve aşılama ile modifiye edilmiş lif özelliklerindeki değişimlerin incelenmesi, Yüksek Lisans, M.BARUT(Öğrenci), 2019
KARAKIŞLA M., Polyester kumaşların indigo boyar maddeleri ile boyanabilirliğinin geliştirilmesi için poli(Vinil alkol) ve modifiye poli(Vinil alkol) polimerleri ile modifiye edilmesi, Doktora, M.KALKAN(Öğrenci), 2017
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KARAKIŞLA M., Talk/polimer kompozitlerinin kimyasal polimerizasyon yöntemi ile hazırlanması ve özelliklerinin incelenmesi, Doktora, D.ANAKLI(Öğrenci), 2013
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. High-Performance Li⁺-Doped Polyaniline/Soybean Fiber Composite Films: A Promising Electrode Material for Solid-State Supercapacitors**
Abdulwadood A., KALKAN ERDOĞAN M., AYDOĞDU TIĞ G., KARAKIŞLA M.
ACS Applied Energy Materials, cilt.7, sa.22, ss.10614-10625, 2024 (SCI-Expanded)
- II. Exploring Waste Wool Derived-Keratin Nanofiber Architectures on Cotton Fabrics: Electrospinning**

Strategies for Enhanced Material Properties

Basbug B., Beycan B., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.

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- III. **Development of a Conductive Polypyrrole and Magnetic Ferrite Particles Decorated-Polyester Nonwoven Composite as an Electromagnetic Interference Shield Material**
Beycan B., Kalkan Erdoğan M., Karakışla M., Saçak M.
TEKSTİL VE KONFEKSİYON, cilt.34, sa.2, ss.147-161, 2024 (SCI-Expanded)
- IV. **Sequential Deposition of Polyaminothiophenols and Gold Nanoparticle on Wool Fabrics: Fabric Composites as Efficient Catalysts in the Reduction of Nitroarenes**
Başbuğ B., Kalkan Erdoğan M., Karakışla M., Saçak M.
CHEMISTRYSELECT, cilt.8, sa.48, ss.1-12, 2023 (SCI-Expanded)
- V. **Easily Applicable Heterogeneous Catalyst from Sustainable Resources: Anchoring of Pd Nanoparticles onto Chemically Poly(2-amino thiophenol)-Modified Wool Fabrics**
Basbug B., Erdogan M., KARAKIŞLA M., SAÇAK M.
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- VI. **Successive Chemical Modification of Poly(acrylonitrile) Fibers with Glycidyl Methacrylate and Poly(p-phenylenediamine)/Ag Particles for an Efficient Antibacterial Activity**
Eroglu N. S., Edogan M., Karakışla M., Saçak M.
FIBERS AND POLYMERS, cilt.23, sa.3, ss.589-600, 2022 (SCI-Expanded)
- VII. **The hydrophilic modification of acrylic textile fibers by grafting of 2-hydroxyethyl methacrylate and investigation of the imparted properties**
Barut M., Kalkan Erdoğan M., Karakışla M., Saçak M.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.59, sa.1, ss.59-71, 2022 (SCI-Expanded)
- VIII. **Deposition of electrically-conductive polyaniline/ferrite nanoparticles onto the polypropylene nonwoven for the development of an electromagnetic interference shield material**
Yörük A. E., Erdoğan M., KARAKIŞLA M., SAÇAK M.
Journal of the Textile Institute, cilt.113, sa.12, ss.2660-2672, 2022 (SCI-Expanded)
- IX. **Investigation of antibacterial properties of polyacrylonitrile fibers modified by new functional groups and silver nanoparticles**
Okay Z., Kalkan Erdoğan M., Karaca B., Karakışla M., Saçak M.
TURKISH JOURNAL OF CHEMISTRY, cilt.46, ss.1137-1151, 2022 (SCI-Expanded)
- X. **Hydrophobic modification of kaolinite by coating with the conductive polythiophene and investigation of the usability as the environmental-based sensors**
Gunay M., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
CHEMICAL PAPERS, cilt.75, sa.1, ss.123-137, 2021 (SCI-Expanded)
- XI. **Preparation of hydrophilic woven fabrics: Surface modification of poly(ethylene terephthalate) by grafting of poly(vinyl alcohol) and poly(vinyl alcohol)-g-(N-vinyl-2-pyrrolidone)**
Kalkan Erdoğan M., Akdemir O., Hamitbeyli A., Karakışla M.
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- XII. **Improvement of the adhesion of conductive poly(m-toluidine) onto chemically reduced-wool fabrics**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- XIII. **Morphologically different silver particles decorated- conductive poly(o-anisidine)/wool fabric composites and investigation of catalytic activity in reduction of methylene blue**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
MATERIALS CHEMISTRY AND PHYSICS, cilt.225, ss.72-83, 2019 (SCI-Expanded)
- XIV. **Preparation and characterization of electrically semi-conductive polyfuran-coated poly(ethylene terephthalate) fibers**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- XV. **Highly effective and recoverable Pd(II) catalyst immobilized on thermally stable Schiff base polymer containing phenol group: Production, characterization and application in Suzuki coupling reactions**
BARAN N. Y., BARAN T., MENTEŞ A., KARAKIŞLA M., SAÇAK M.
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- XVI. **Polypyrrole and silver particles coated poly(ethylene terephthalate) nonwoven composite for electromagnetic interference shielding**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- XVII. **Fabrication of poly(o-Anisidine)/Ag particles coated poly(ethylene terephthalate) nonwoven composite and investigation of antibacterial activity**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
POLYMER COMPOSITES, cilt.39, 2018 (SCI-Expanded)
- XVIII. **Synthesis and characterization of conductive poly(o-anisidine)/talc composite**
ANAKLI D., Cetinkaya S., KARAKIŞLA M., Sacak E.
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- XIX. **Synthesis, characterization, conductivity and antimicrobial study of a novel thermally stable polyphenol containing azomethine group**
Baran N. Y., Karakışla M., Demir H. Ö., Saçak M.
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- XX. **Conductive poly(o-anisidine)/poly(ethylene terephthalate) nonwoven composite: Investigation of synthesis parameters and electromagnetic shielding effectiveness**
Turay C. B., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- XXI. **Conductive polyaniline-polythiophene/poly(ethylene terephthalate) composite fiber: Effects of pH and washing processes on surface resistivity**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- XXII. **Polypyrrole/Natural Zeolite Composite Prepared by In Situ Oxidative Polymerization: Thermal and Humidity Sensing Properties**
Selcuk S., KARAKIŞLA M., SAÇAK M.
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- XXIII. **Synthesis and characterization of poly(N-Ethyl aniline) / talc composite materials**
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- XXIV. **Preparation and characterization of conductive polypyrrole/kaolinite composites**
Acar H., KARAKIŞLA M., SAÇAK M.
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- XXV. **Potassium persulfate-mediated preparation of conducting polypyrrole/polyacrylonitrile composite fibers: Humidity and temperature-sensing properties**
Acar H., KARAKIŞLA M., SAÇAK M.
Journal of Applied Polymer Science, cilt.125, sa.5, ss.3977-3985, 2012 (SCI-Expanded)
- XXVI. **Electrorheological properties of polyaniline/K-feldspar conducting composite**
EROL Ö., KARAKIŞLA M., Unal H. I., SAÇAK M.
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- XXVII. **Preparation of poly(o-toluidine)/polyacrylonitrile composite fibres using CrO₃**
Üçhöyük C., KARAKIŞLA M., SAÇAK M.
Indian Journal of Fibre and Textile Research, cilt.37, sa.2, ss.120-126, 2012 (SCI-Expanded)
- XXVIII. **Preparation, Characterization and Electromagnetic Shielding Effectiveness of Conductive Polythiophene/Poly(ethylene terephthalate) Composite Fibers**

KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.

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- XXIX. **Preparation and characterization of conducting poly(ethylene terephthalate)/polypyrrole composite fibers**
AYDIN A., KARAKIŞLA M., SAÇAK M.
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- XXX. **Conducting polyaniline/kaolinite composite: Synthesis, characterization and temperature sensing properties**
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- XXXI. **Conductive polyaniline/polyacrylonitrile composite fibers: Effect of synthesis parameters on polyaniline content and electrical surface resistivity**
Toptaş N., KARAKIŞLA M., SAÇAK M.
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- XXXII. **Polyaniline grafted polyacrylonitrile conductive composite fibers for reversible immobilization of enzymes: Stability and catalytic properties of invertase**
BAYRAMOĞLU G., KARAKIŞLA M., Altıntaş B., Metin A. U., SAÇAK M., Arica M. Y.
Process Biochemistry, cilt.44, sa.8, ss.880-885, 2009 (SCI-Expanded)
- XXXIII. **Synthesis of Poly(o-toluidine) in DMF/Water Mixture Using Benzoyl Peroxide**
Mucuk Z., Karakışla M., Saçak M.
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- XXXIV. **The preparation and characterization of conductive poly(ethylene terephthalate)/polyaniline composite fibers using benzoyl peroxide**
Cetin E., KARAKIŞLA M., SAÇAK M.
FIBERS AND POLYMERS, cilt.9, sa.3, ss.255-262, 2008 (SCI-Expanded)
- XXXV. **Preparation of methacrylamide grafted and dye-ligand immobilized PET fibers: Studies of adsorption and purification of lysozyme**
KARAKIŞLA M., Bayramoglu G., Arica M. Y.
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- XXXVI. **Preparation of poly(ethylene terephthalate)-g-methacrylamide copolymers initiated by azobisisobutyronitrile: Characterization and investigation of some properties**
Alakara S., KARAKIŞLA M., SAÇAK M.
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- XXXVII. **Conductive potassium feldspar/polyaniline composites prepared by in situ chemical polymerization**
Cetinkaya S., KARAKIŞLA M., Oezer A., SAÇAK M.
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- XXXVIII. **Graft copolymerization of an itaconic acid/acrylamide monomer mixture onto poly(ethylene terephthalate) fibers with benzoyl peroxide**
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- XXXIX. **Graft polymerization of methacrylamide onto poly(ethylene terephthalate) fibers with benzoyl peroxide as initiator and their characterization**
Ogun N., Karakışla M., Aksu L., Sacak M.
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- XL. **The chemical synthesis of conductive polyaniline doped with dicarboxylic acids**
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- XLI. **The adsorption of Cu(II) ion from aqueous solution upon acrylic acid grafted poly(ethylene**

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- XLII. **Conductive composite films prepared using undoped polyaniline and poly(methyl methacrylate)**
Karakisla M., Erdem E., Sacak M.
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- XLIII. **Polypyrrole/polyaniline conductive films obtained electrochemically on polycarbonate-coated platinum electrodes**
Karakisla M., Aksu L., Sacak M.
POLYMER INTERNATIONAL, cilt.51, sa.12, ss.1371-1377, 2002 (SCI-Expanded)
- XLIV. **The chemical synthesis of conductive polyaniline by using benzoyl peroxide**
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- XLV. **The preparation of polyaniline/polypyrrole conductive polymer films on polycarbonate-coated Pt electrodes**
Karakisla M., Sacak M.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, cilt.38, sa.1, ss.51-59, 2000 (SCI-Expanded)
- XLVI. **Grafting of ethyl acrylate onto monofilament polyester fibers using benzoyl peroxide**
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JOURNAL OF APPLIED POLYMER SCIENCE, cilt.70, sa.9, ss.1701-1705, 1998 (SCI-Expanded)
- XLVII. **316 Steel electrode coated with polycarbonate for electropolymerization of aniline**
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- XLIX. **Synthesis and characterization of malonic acid-doped polyaniline**
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- L. **Synthesis and properties of oxalic acid-doped polyaniline**
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- LI. **Conductive polyaniline poly(methyl methacrylate) films obtained by electropolymerization**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Design of Silk Fabric Surface with Enhanced Antiseptic Properties through Graft Modification and Iodophor Integration**
Dinçer S., Kalkan Erdoğan M., Omeroglou E., Kiran F., Karakışla M., Saçak M.
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- II. **Preparation of a Clay Composite Containing Poly(o-toluidine) and Halloysite, and Examining of Its Performance as a Humidity Sensor**
Kalkan Erdoğan M., Karakışla M.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, cilt.9, sa.2, ss.521-534, 2021 (Hakemli Dergi)
- III. **Simultaneous deposition of poly(O-anisidine) and noble ag particles on wool fabric and the evaluation of its performance as a catalyst in dye reduction**
KALKAN ERDOĞAN M., KARAKIŞLA M.

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IV. Synthesis and characterization of poly(o-toluidine)/kaolinite conductive composites for humidity and temperature sensing

BORAN F., Cetinkaya S., KARAKIŞLA M., SAÇAK M.

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V. Geliştirilmiş elektrik iletkenliğine sahip POT/Na-Feldspat iletken kompozitlerinin sentezlenmesi ve karakterizasyonu

BORAN F., ÇETİNKAYA S., ANAKLI D., ŞAHİN M., SAÇAK M.

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Gluten Türevi Proteinlerle Emülsifiye Edilmiş Su Bazlı Poliüretan Liflerin Sentezi ve Karakterizasyonu: Çevre Dostu Malzemelere Yeni Bir Yaklaşım**
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IX. Polymer Science and Technology Congress with International Participation, Ankara, Türkiye, 16 - 18 Eylül 2024, ss.405
- II. İpek Dokuma Yüze Özelliğlerinin Kimyasal Modifikasyon ile Geliştirilmesi**
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IX. Polymer Science and Technology Congress with International Participation, Ankara, Türkiye, 16 - 18 Eylül 2024, ss.387
- III. Advancing Surface Engineering: Developing a Biocompatible Electrospun Cellulose Fabric for Nanofibrous Web Design**
Başbuğ B., Kalkan Erdoğan M., Karakışla M., Saçak M.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Türkiye, 16 - 18 Eylül 2024, ss.398
- IV. Electrochemical Behaviour of Conductive Composite Film Doped with Plant-Derived Protein Fibers**
Abdulwadood A., Aydoğdu Tiğ G., Kalkan Erdoğan M., Karakışla M., Saçak M.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Türkiye, 16 - 18 Eylül 2024, ss.388
- V. Chemically Attractive Surface Modification of Cotton Fabrics via Electrospinning Technique Using Sustainable Wool Keratin-based Biopolymeric Blends**
Başbuğ B., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
50th World Polymer Congress IUPAC MACRO 2024, Coventry, İngiltere, 1 - 04 Temmuz 2024
- VI. Cotton Reimagined: Surface Functionalization of Cotton Fabric Using Waterborne Polyurethane/Poly(2-ethyl 2-oxazoline) Blends for Biomedical Textiles**
Beycan B., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
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- VII. Surface Functionalization of Cotton Fabrics with Modified Bamboo Cellulose-Based Biopolymers Through Electrospinning Technique**
Başbuğ B., Kalkan Erdoğan M., Yurdakök Dikmen B., Yangın S., Kıymacı M. E., Karakışla M., Saçak M.
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- VIII. Preparation and Characterization of Biocompatible Materials From Keratin-based Nanofibers by Electro-Spinning Method**
Başbuğ B., Kalkan Erdoğan M., Karakışla M., Saçak M.
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