

Prof. MERAL KARAKIŞLA

Personal Information

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International Researcher IDs

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

ScopusID: 56024052200

Yoksis Researcher ID: 6377

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1992 - 1998

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1989 - 1992

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1985 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Polimer kaplı elektrodlar üzerinde anilinin elektrokimyasal polimerizasyonu, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1998

Postgraduate, Tek kath poli (etilen teraftalat) liflere vinil monomerlerinin aşılanması, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1992

Research Areas

Chemistry, Physical Chemistry

Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2009 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2003 - 2009

Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 1989 - 2003

Courses

KİM357 Fizikokimya Laboratuvarı, Undergraduate, 2018 - 2019

CHM215 Physical Chemistry I, Undergraduate, 2018 - 2019
CHM245 Introduction to Polymer Chemistry, Undergraduate, 2018 - 2019
KİM215 Fizikokimya I, Undergraduate, 2018 - 2019
CHM101 General Chemistry I, Undergraduate, 2018 - 2019, 2016 - 2017
KİM432 Kauçuk Kimyası ve Teknolojisi, Undergraduate, 2018 - 2019
Polimerlerin Analizi ve Karekterizasyonu, Postgraduate, 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, Undergraduate, 2017 - 2018
Physical Chemistry I, Undergraduate, 2017 - 2018
CHM102 General Chemistry II, Undergraduate, 2017 - 2018, 2016 - 2017
Physical Chemistry II, Undergraduate, 2017 - 2018
FİZİKOKİMYA II, Undergraduate, 2015 - 2016, 2014 - 2015
FİZİKOKİMYA I, Undergraduate, 2015 - 2016, 2014 - 2015
TEMEL KİMYA, Undergraduate, 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, Postgraduate, 2015 - 2016
KAUÇUK KİMYASI, Undergraduate, 2014 - 2015
CHM102, Undergraduate, 2014 - 2015
Fizikokimya-II, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Kauçuk Kimyası ve Teknolojisi, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Fizikokimya-I, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Advising Theses

KARAKIŞLA M., The preparation, characterization and investigation of some properties graft copolymer fibers with improved surface properties by grafting of glycidyl methacrylate and p-phenylenediamine onto polyacrylonitrile fibers, Postgraduate, N.SEVEN(Student), 2020
KARAKIŞLA M., Grafting of 2-hydroxyethyl methacrylate to the acrylic fibers and investigation of the changes in the properties of fiber modified by grafting, Postgraduate, M.BARUT(Student), 2019
KARAKIŞLA M., Polyester kumaşların indigo boyar maddeleri ile boyanabilirliğinin geliştirilmesi için poli(Vinil alkol) ve modifiye poli(Vinil alkol) polimerleri ile modifiye edilmesi, Doctorate, M.KALKAN(Student), 2017
KARAKIŞLA M., N,n'-bis(Piridin-2-ilmetiliden)benzen-1,4-diamin schiff bazının oksidatif kondensasyon polimerizasyonu ve bazı özelliklerinin incelenmesi, Postgraduate, A.A.(Student), 2017
KARAKIŞLA M., Talk/polimer kompozitlerinin kimyasal polimerizasyon yöntemi ile hazırlanması ve özelliklerinin incelenmesi, Doctorate, D.ANAKLI(Student), 2013
KARAKIŞLA M., Potasyum persülfat yükseltgeni kullanılarak iletken poliakrilonitril/polipirol kompozit lif hazırlanması ve karekterizasyonu, Postgraduate, H.ACAR(Student), 2008
KARAKIŞLA M., İletken poli(etilen teraftalat)/polipirol kompozit liflerinin kimyasal polimerizasyonla hazırlanması ve karakterizasyonu, Postgraduate, Z.AYDIN(Student), 2007
KARAKIŞLA M., Anilin ve poliakrilonitril kullanarak kimyasal polimerizasyon yöntemi ile iletken kompozit lif hazırlanması, Postgraduate, N.TOPTAŞ(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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.
ACS APPLIED POLYMER MATERIALS, vol.4, no.10, pp.6834-6849, 2022 (SCI-Expanded)
- II. **Successive Chemical Modification of Poly(acrylonitrile) Fibers with Glycidyl Methacrylate and**

- Poly(p-phenylenediamine)/Ag Particles for an Efficient Antibacterial Activity**
Eroglu N. S., Erdogan M., Karakışla M., Saçak M.
FIBERS AND POLYMERS, vol.23, no.3, pp.589-600, 2022 (SCI-Expanded)
- III. 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, vol.59, no.1, pp.59-71, 2022 (SCI-Expanded)
- IV. 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, vol.46, pp.1137-1151, 2022 (SCI-Expanded)
- V. 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, vol.113, no.12, pp.2660-2672, 2022 (SCI-Expanded)
- VI. 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, vol.75, no.1, pp.123-137, 2021 (SCI-Expanded)
- VII. 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.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.16, 2020 (SCI-Expanded)
- VIII. Improvement of the adhesion of conductive poly(m-toluidine) onto chemically reduced-wool fabrics**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.775-790, 2020 (SCI-Expanded)
- IX. 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, vol.225, pp.72-83, 2019 (SCI-Expanded)
- X. Preparation and characterization of electrically semi-conductive polyfuran-coated poly(ethylene terephthalate) fibers**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
JOURNAL OF THE TEXTILE INSTITUTE, vol.110, no.2, pp.282-288, 2019 (SCI-Expanded)
- XI. 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.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.866, pp.87-94, 2018 (SCI-Expanded)
- XII. Polypyrrole and silver particles coated poly(ethylene terephthalate) nonwoven composite for electromagnetic interference shielding**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
JOURNAL OF COMPOSITE MATERIALS, vol.52, no.10, pp.1353-1362, 2018 (SCI-Expanded)
- XIII. 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, vol.39, 2018 (SCI-Expanded)
- XIV. Synthesis and characterization of conductive poly(o-anisidine)/talc composite**
ANAKLI D., Cetinkaya S., KARAKIŞLA M., Sacak E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.33, no.2, pp.403-412, 2018 (SCI-Expanded)

- XV. **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.
JOURNAL OF INDUSTRIAL TEXTILES, vol.46, no.4, pp.1104-1120, 2016 (SCI-Expanded)
- XVI. **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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1123, pp.153-161, 2016 (SCI-Expanded)
- XVII. **Conductive polyaniline-polythiophene/poly(ethylene terephthalate) composite fiber: Effects of pH and washing processes on surface resistivity**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, no.20, 2015 (SCI-Expanded)
- XVIII. **Polypyrrole/Natural Zeolite Composite Prepared by In Situ Oxidative Polymerization: Thermal and Humidity Sensing Properties**
Selcuk S., KARAKIŞLA M., SAÇAK M.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.51, no.5, pp.405-411, 2014 (SCI-Expanded)
- XIX. **Synthesis and characterization of poly(N-Ethyl aniline) / talc composite materials**
ANAKLI D., Çetinkaya S., KARAKIŞLA M., SAÇAK M.
Inżynieria Mineralna, vol.14, no.2, pp.115-118, 2013 (SCI-Expanded)
- XX. **Preparation and characterization of conductive polypyrrole/kaolinite composites**
Acar H., KARAKIŞLA M., SAÇAK M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.16, no.3, pp.845-850, 2013 (SCI-Expanded)
- XXI. **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, vol.125, no.5, pp.3977-3985, 2012 (SCI-Expanded)
- XXII. **Preparation of poly(o-toluidine)/polyacrylonitrile composite fibres using CrO₃**
Üçhöyük C., KARAKIŞLA M., SAÇAK M.
Indian Journal of Fibre and Textile Research, vol.37, no.2, pp.120-126, 2012 (SCI-Expanded)
- XXIII. **Electrorheological properties of polyaniline/K-feldspar conducting composite**
EROL Ö., KARAKIŞLA M., Unal H. I., SAÇAK M.
Journal of Composite Materials, vol.46, no.11, pp.1295-1304, 2012 (SCI-Expanded)
- XXIV. **Preparation, Characterization and Electromagnetic Shielding Effectiveness of Conductive Polythiophene/Poly(ethylene terephthalate) Composite Fibers**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.49, no.6, pp.473-482, 2012 (SCI-Expanded)
- XXV. **Preparation and characterization of conducting poly(ethylene terephthalate)/polypyrrole composite fibers**
AYDIN A., KARAKIŞLA M., SAÇAK M.
Journal of Thermoplastic Composite Materials, vol.23, no.6, pp.895-910, 2010 (SCI-Expanded)
- XXVI. **Conducting polyaniline/kaolinite composite: Synthesis, characterization and temperature sensing properties**
Duran N. G., KARAKIŞLA M., Aksu L., SAÇAK M.
Materials Chemistry and Physics, vol.118, no.1, pp.93-98, 2009 (SCI-Expanded)
- XXVII. **Conductive polyaniline/polyacrylonitrile composite fibers: Effect of synthesis parameters on polyaniline content and electrical surface resistivity**
Toptaş N., KARAKIŞLA M., SAÇAK M.
Polymer Composites, vol.30, no.11, pp.1618-1624, 2009 (SCI-Expanded)
- XXVIII. **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, vol.44, no.8, pp.880-885, 2009 (SCI-Expanded)
- XXIX. Synthesis of Poly(o-toluidine) in DMF/Water Mixture Using Benzoyl Peroxide**
Mucuk Z., Karakışla M., Saçak M.
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.14, no.5, pp.403-417, 2009
(SCI-Expanded)
- XXX. Preparation of methacrylamide grafted and dye-ligand immobilized PET fibers: Studies of adsorption and purification of lysozyme**
KARAKIŞLA M., Bayramoglu G., Arica M. Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.108, no.5, pp.3313-3323, 2008 (SCI-Expanded)
- XXXI. The preparation and characterization of conductive poly(ethylene terephthalate)/polyaniline composite fibers using benzoyl peroxide**
Cetin E., KARAKIŞLA M., SAÇAK M.
FIBERS AND POLYMERS, vol.9, no.3, pp.255-262, 2008 (SCI-Expanded)
- XXXII. Preparation of poly(ethylene terephthalate)-g-methacrylamide copolymers initiated by azobisisobutyronitrile: Characterization and investigation of some properties**
Alakara S., KARAKIŞLA M., SAÇAK M.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.45, no.4, pp.276-280, 2008 (SCI-Expanded)
- XXXIII. Conductive potassium feldspar/polyaniline composites prepared by in situ chemical polymerization**
Cetinkaya S., KARAKIŞLA M., Oezer A., SAÇAK M.
SYNTHETIC METALS, vol.157, no.18-20, pp.702-707, 2007 (SCI-Expanded)
- XXXIV. Graft copolymerization of an itaconic acid/acrylamide monomer mixture onto poly(ethylene terephthalate) fibers with benzoyl peroxide**
Coskun R., Sacak M., Karakisla M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.97, no.5, pp.1795-1803, 2005 (SCI-Expanded)
- XXXV. Graft polymerization of methacrylamide onto poly(ethylene terephthalate) fibers with benzoyl peroxide as initiator and their characterization**
Ongun N., Karakisla M., Aksu L., Sacak M.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.205, no.15, pp.1995-2001, 2004 (SCI-Expanded)
- XXXVI. The chemical synthesis of conductive polyaniline doped with dicarboxylic acids**
Erdem E., Karakisla M., Sacak M.
EUROPEAN POLYMER JOURNAL, vol.40, no.4, pp.785-791, 2004 (SCI-Expanded)
- XXXVII. The adsorption of Cu(II) ion from aqueous solution upon acrylic acid grafted poly(ethylene terephthalate) fibers**
Karakisla M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.87, no.8, pp.1216-1220, 2003 (SCI-Expanded)
- XXXVIII. Conductive composite films prepared using undoped polyaniline and poly(methyl methacrylate)**
Karakisla M., Erdem E., Sacak M.
POLYMER JOURNAL, vol.35, no.11, pp.879-883, 2003 (SCI-Expanded)
- XXXIX. Polypyrrole/polyaniline conductive films obtained electrochemically on polycarbonate-coated platinum electrodes**
Karakisla M., Aksu L., Sacak M.
POLYMER INTERNATIONAL, vol.51, no.12, pp.1371-1377, 2002 (SCI-Expanded)
- XL. The chemical synthesis of conductive polyaniline by using benzoyl peroxide**
Karakisla M., Sacak M.
JOURNAL OF MACROMOLECULAR SCIENCE-PURE AND APPLIED CHEMISTRY, vol.A39, no.11, pp.1349-1359, 2002
(SCI-Expanded)
- XLI. The preparation of polyaniline/polypyrrole conductive polymer films on polycarbonate-coated Pt electrodes**

- Karakısla M., Sacak M.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.38, no.1, pp.51-59, 2000 (SCI-Expanded)
- XLII. **Grafting of ethyl acrylate onto monofilament polyester fibers using benzoyl peroxide**
Karakısla M., Sacak M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.70, no.9, pp.1701-1705, 1998 (SCI-Expanded)
- XLIII. **316 Steel electrode coated with polycarbonate for electropolymerization of aniline**
SAÇAK M., KARAKIŞLA M., Akbulut U.
Journal of Applied Polymer Science, vol.65, no.6, pp.1103-1111, 1997 (SCI-Expanded)
- XLIV. **A 316 steel electrode coated with polycarbonate for electropolymerization of aniline**
Sacak M., Karakısla M., Akbulut U.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.65, no.6, pp.1103-1111, 1997 (SCI-Expanded)
- XLV. **Synthesis and characterization of malonic acid-doped polyaniline**
Karakısla M., Sacak M., Erdem E., Akbulut U.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.27, no.3, pp.309-316, 1997 (SCI-Expanded)
- XLVI. **Synthesis and properties of oxalic acid-doped polyaniline**
Erdem E., Sacak M., Karakısla M.
POLYMER INTERNATIONAL, vol.39, no.2, pp.153-159, 1996 (SCI-Expanded)
- XLVII. **Conductive polyaniline poly(methyl methacrylate) films obtained by electropolymerization**
Karakısla M., Sacak M., Akbulut U.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.59, no.9, pp.1347-1354, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Preparation of a Clay Composite Containing Poly(o-toluidine) and Halloysite, and Examining of Its Performance as a Humidity Sensor**
Kalkan Erdoğan M., Karakısla M.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.2, pp.521-534, 2021 (Peer-Reviewed Journal)
- II. **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.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.6, no.2, pp.225-236, 2019 (Scopus)
- III. **Synthesis and characterization of poly(o-toluidine)/kaolinite conductive composites for humidity and temperature sensing**
BORAN F., Cetinkaya S., KARAKIŞLA M., SAÇAK M.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGİSİ, vol.24, no.7, pp.1278-1283, 2018 (ESCI)
- IV. **Geliştirilmiş elektrik iletkenliğine sahip POT/Na-Feldsipat iletken kompozitlerinin sentezlenmesi ve karakterizasyonu**
BORAN F., ÇETİNKAYA S., ANAKLI D., ŞAHİN M., SAÇAK M.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.8, no.4, pp.901-910, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of an Easily Applicable Heterogeneous Catalyst by Anchoring Palladium and Gold Nanoparticles onto Chemically-Modified Wool Fabrics**
KALKAN ERDOĞAN M., Başbuğ B., KARAKIŞLA M., SAÇAK M.
NanoTR-16, Ankara, Turkey, 5 - 08 September 2022
- II. **Synthesis of conductive poly(o-ethoxyaniline)/talc composite and investigation of its properties**

- ANAKLI D., ÇETİNKAYA GÜRER S., KARAKIŞLA M.
Middle east international conference on multidiciplinary studies, Beirut, Lebanon, 9 - 12 May 2019, pp.483-488
- III. **Ag Particles Deposition on Polyacrylonitrile Fibers Grafted By Acrylamide, Acrylamide-Itaconic Acid and Acrylamide-Maleic Acid**
OKAY Z., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
5th International Conference on New Trends in Chemistry, 22 - 24 April 2019
- IV. **Electromagnetic Shielding Effectiveness Performances of Wool Fabric Composites Differently Coated with Conductive Polyaniline Derivatives and Noble Ag Particles**
KALKAN ERDOĞAN M., ŞAHİN M., SAÇAK M.
2nd International Conference on Innovations in Natural Science and Engineering, Kiev, Ukraine, 7 - 10 September 2018
- V. **Preparation of Conductive Polyaniline/Metacryloyl Modified-Poly(Vinyl Alcohol) Thin Films and Investigation of Their Usability in the Reduction of Morphologically Different Ag Particles**
KALKAN ERDOĞAN M., ŞAHİN M., SAÇAK M.
31st Materials Science and Engineering Conference: Advancement Innovations, Helsinki, Finland, 15 - 17 October 2018
- VI. **The Preparation of Ag Particles Deposited and Acrylic Acid Grafted Polyacrylonitrile Fiber Composite and Its Antibacterial Properties**
OKAY Z., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
4th International Turkic World Conference on Chemical Sciences and Technologies, 7 - 10 September 2018
- VII. **Modification and Characterization of Poly(acrylonitrile) Fibers by Grafting of Acrylic Acid**
OKAY Z., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
International Congress on Fundemental and Applied Sciences, 18 - 22 June 2018
- VIII. **The Modification of Surface of Polyacrylonitrile Fiber by Grafting of Glycidyl Methacrylate Monomer**
ŞAHİN M., Seven N., KALKAN ERDOĞAN M., SAÇAK M.
4th Interntional Conference on New Trends in Chemistry, ST. PETERSBURG, Russia, 11 - 13 May 2018
- IX. **Synthesis of Conductive Polymer / Inorganic Material Composites and Characterization of Their Properties**
ANAKLI D., ÇETİNKAYA S., ŞAHİN M.
4th INTERNATIONAL CONFERENCE ON COMPUTATIONALAND EXPERIMENTAL SCIENCE AND ENGINEERING(ICCESEN-2017), Antalya, Turkey, 4 - 08 October 2017, pp.577
- X. **Preparation of Poly(2-Ethoxy Aniline)/Talc Conductive Composite and Investigation of Its Properties**
ANAKLI D., ÇETİNKAYA S., ŞAHİN M.
4th INTERNATIONAL CONFERENCE ON COMPUTATIONALAND EXPERIMENTAL SCIENCE AND ENGINEERING(ICCESEN-2017), Antalya, Turkey, 4 - 08 October 2017, pp.687
- XI. **Synthesis of Conductive Polymer/inorganic Material Composites and Characterization of Their Properties**
ANAKLI D., ÇETİNKAYA S., ŞAHİN M.
4th International Conference on Computational and Experimental Science and Engineering, 4 - 08 October 2017
- XII. **Synthesis and Characterization of Conductive and Soluble Polyaniline by Sodium Hypochloride as Oxidant**
ŞAHİN M., DAĞ Ü., SAÇAK M.
4TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, 4 - 08 October 2017
- XIII. **İletken Polimer/Metal Parçacık ile Kaplanmış Nonwoven Kumaşların Elektromanyetik Girişime Karşı Koruyuculuğunun İncelenmesi.**
KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
29.ULUSAL KİMYA KONGRESİ, Ankara, Turkey, 10 - 14 September 2017
- XIV. **The Synthesis and Characterization of N,N'-bis(pyridine-2-ylmethylene)benzene-1,4-Diamine Schiff Base and Its Polymer**

- ŞAHİN M., FADHEL A. A., YILMAZ BARAN N., SAÇAK M.
International Turkic World Conference on Chemical Sciences Technologies, Baku, Azerbaijan, 10 - 13 September 2017
- XV. **The Preparation and Characterization of Poly o toluidine Halloysite Nanotube Conducting Composite**
ŞAHİN M., SAÇAK M.
International Congress on Natural and Engineering Sciences, 1 - 05 September 2016
- XVI. **Effect of Surfactant Types on the Size of Tin Oxide Nanoparticles**
BORAN F., ÇETİNKAYA S., ŞAHİN M.
3rd International Conference on Computational and Experimental Science and Engineering, 19 October - 24 February 2016
- XVII. **The Preparation and Characterization of Conductive Poly o toluidine Smectite Clay Nanocomposite**
ERDEM E., ŞAHİN M., SAÇAK M.
18. International Science University, 1 - 02 February 2016
- XVIII. **Conductive clay nanocomposite using smectite and poly anisidine**
ŞAHİN M., ERDEM E., SAÇAK M.
ICP 2016: 18th International Conference on Polymer, Rio de Janeiro, Brazil, 1 - 02 February 2016
- XIX. **Preparation of Conductive Composite Fiber by the Reduction of Silver Particles onto Hydrolyzed Poly acrylonitrile Fiber**
OKAY Z., KALKAN ERDOĞAN M., KARAKIŞLA M., SAÇAK M.
18. International Science University, World Academy of Science, Engineering and Technology, 1 February - 02 January 2016
- XX. **Conductive Clay nanocomposite Using Smectite and Poly o anisidine**
ŞAHİN M., ERDEM E., SAÇAK M.
18. International Science University, 1 - 02 February 2016
- XXI. **Preparation of Conductive Composite Fiber by the Reduction of Silver Particles onto Hyrdrolyzed Polyacrylonitrile Fiber**
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