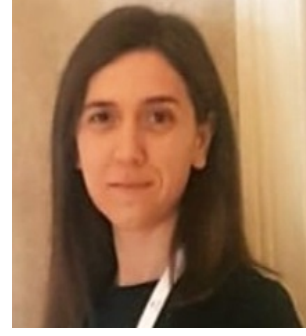


BURCU OKTAY

ASSOC. PROF.

Email : burcu.oktay@marmara.edu.tr



Biography

Burcu Oktay 2009 yılında Kocaeli Üniversitesi Kimya bölümünden mezun oldu. Marmara Üniversitesinde yüksek lisans ve doktora öğrenimlerini tamamladı. 2015 yılında Marmara Üniversitesi Kimya Bölümünde göreve başladı. 2020 yılında doçent ünvanını aldı. Başlıca çalışma konuları arasında kontrollü polimerizasyon teknikleri, ışıkla sertleşen fonksiyonel kaplamalar, fonksiyonel enerji depolama malzemeleri, nanofiberler ve yüzey modifikasyonları yer almaktadır.

Learning Knowledge

Doctorate 2011 - 2015	Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Organik Kimya (Dr), Turkey
Postgraduate 2009 - 2011	Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Organik Kimya (YI) (Tezli), Turkey
Undergraduate 2005 - 2009	Kocaeli University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Elektrospon tekniği ile hazırlanan biyopolimer nanofiberlerin yüzey modifikasyonları ve uygulamaları, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya (Dr), 2015

Postgraduate, Gümüş nanoparçacıkları içeren antimikrobiyal organik-inorganik hibrit kaplamaların hazırlanması ve karakterizasyonu, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya (YI) (Tezli), 2011

Academic Titles / Tasks

Associate Professor 2020 - Continues	Marmara University, Faculty Of Arts And Sciences, Chemistry
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Supported Projects

1. Oktay B., Project Supported by Higher Education Institutions, Biyoesaşı Vitrimierlerin Hazırlanması ve Karakterizasyonu, 2022 - 2024
2. Oktay B., Project Supported by Higher Education Institutions, Biyobazlı Kendiliğinden Çapraz Bağlanabilen Süper Hidrofobik Kaplamaların Sentezi ve Karakterizasyonu, 2022 - 2023
3. Oktay B., Project Supported by Higher Education Institutions, Polietilen glikol-Yağ Asidi İçerikli Faz Değişim Malzemelerinin Kontrollü Polimerizasyon Teknikleri İle Hazırlanması, 2019 - 2021
4. Oktay B., Kayaman Apohan N., Project Supported by Higher Education Institutions, İyonik Sıvı Destekli PVDF Polielektrolitlerin Kontrollü Polimerizasyon ile Hazırlanması ve Karakterizasyonu, 2019 - 2020
5. Oktay B., Kayaman Apohan N., Project Supported by Higher Education Institutions, Çekirdek Kabuk Tipi Poliakrilat Hidroksi Apatit İlaç Taşıyıcıların Kontrollü Polimerizasyon ile Sentezi ve Karakterizasyon Çalışmaları, 2017 - 2019
6. Oktay B., Kayaman Apohan N., Project Supported by Higher Education Institutions, Atom Transfer Radikal Polimerizasyonu ile Yüzey Modifiye Poliviniliden florid (PVDF) Esaslı Nanoliflerin Lityum İyon Pillerde Elektrolit Olarak Kullanımı, 2017 - 2019

Awards

1. Oktay B., Fen bilimleri 2018 yayın 1.lık ödülü, Marmara Üniversitesi, June 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **Biodegradable Polyurethane Solid-Solid Phase Change Materials**
Oktay B., Kayaman Apohan N.
ChemistrySelect, vol.6, no.24, pp.6280-6285, 2021 (Journal Indexed in SCI)
2. **Stimuli-responsive smart nanoparticles with well-defined random and triblock terpolymers for controlled release of an anticancer drug**
Koçal G., Oktay B., Eroğlu G. Ö., Kuruca S. E., Çubuk S., Kayaman Apohan N.
Materials Today Communications, vol.26, 2021 (Journal Indexed in SCI)
3. **Polyurethane graphene nanocomposites with self-healing properties by azide-alkyne click reaction**
Akhan S., Oktay B., Özdemir O. K., Madakbaş S., Kayaman Apohan N.
Materials Chemistry and Physics, vol.254, 2020 (Journal Indexed in SCI)
4. **Immobilization of pectinase on polyethyleneimine based support via spontaneous amino-yne click reaction**
OKTAY B., DEMİR S., Kayaman-Apohan N.
Food and Bioproducts Processing, vol.122, pp.159-168, 2020 (Journal Indexed in SCI)
5. **Development of nanofiber based immunosorbent surface for the removal of fluoxetine from breast milk**
Tunali-Akbay T., Kahraman M. V., Oktay B., İpekçi H., Kayaman Apohan N.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.68, no.16, pp.947-955, 2019 (Journal Indexed in SCI Expanded)
6. **Preparation of a Poly(ethylene glycol)-Based Cross-Linked Network from a Click Reaction for Enzyme Immobilization**

- Oktay B., Demir S., Kayaman Apohan N.
CHEMISTRYSELECT, vol.4, no.20, pp.6055-6059, 2019 (Journal Indexed in SCI)
7. **Designing Coconut Oil Encapsulated Poly(stearyl methacrylate-co-hydroxyethyl metacrylate) Based Microcapsule for Phase Change Materials**
OKTAY B., Basturk E., KAHRAMAN M. V. , Apohan N.
CHEMISTRYSELECT, vol.4, no.17, pp.5110-5115, 2019 (Journal Indexed in SCI)
 8. **Poly(ethylene glycol)/Polyvinyl chloride Composite Form-Stable Phase-Change Materials by the Azide-Alkyne Click Reaction**
OKTAY B.
CHEMISTRYSELECT, vol.3, no.42, pp.11737-11743, 2018 (Journal Indexed in SCI)
 9. **Preparation of poly (bis[2-(methacryloyloxy)ethyl] phosphate) crosslinked polymer brushes on Poly(vinylidene fluoride) nanofibers**
Oktay B., Ugur M. H. , Kayaman Apohan N.
MATERIALS CHEMISTRY AND PHYSICS, vol.217, pp.168-174, 2018 (Journal Indexed in SCI)
 10. **Preparation and thermal properties of Alkoxy Silane functionalized polyether sulfone/well-defined poly(trimethoxysilyl) propyl methacrylate-based hybrid materials**
OKTAY B., Basturk E., KAHRAMAN M. V. , KAYAMAN APOHAN N.
POLYMER ENGINEERING AND SCIENCE, vol.58, no.8, pp.1346-1352, 2018 (Journal Indexed in SCI)
 11. **Thiol-yne photo-clickable electrospun phase change materials for thermal energy storage**
OKTAY B., Basturk E., KAHRAMAN M. V. , Apohan N.
REACTIVE & FUNCTIONAL POLYMERS, vol.127, pp.10-19, 2018 (Journal Indexed in SCI)
 12. **Methacrylate Functionalized MWCNTs/PDMS-Polyurethane Methacrylate UV-Curable Nanocomposites**
İlgün K., Oktay B., Kayaman Apohan N.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1235-1245, 2018 (Journal Indexed in SCI)
 13. **Magnetic nanoparticle containing thiol-ene crosslinked hydrogels for controlled and targeted release of hydrophobic drugs**
Oktay B., Demir S., Kayaman Apohan N.
POLYMER COMPOSITES, vol.39, 2018 (Journal Indexed in SCI)
 14. **Highly thermally resistant, hydrophobic poly(vinyl alcohol)-silica hybrid nanofibers**
Ugur M. H. , OKTAY B., Gungor A., KAYAMAN APOHAN N.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.83, pp.885-897, 2018 (Journal Indexed in SCI)
 15. **DOPO tethered Diels Alder clickable reactive silica nanoparticles for bismaleimide containing flame retardant thiol-ene nanocomposite coatings**
OKTAY B., ÇAKMAKÇI E.
POLYMER, vol.131, pp.132-142, 2017 (Journal Indexed in SCI)
 16. **Chitosan-co-Hyaluronic acid porous cryogels and their application in tissue engineering**
Kutlusoy T., OKTAY B., KAYAMAN APOHAN N., Silleymanoglu M., Kuruca S. E.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.103, pp.366-378, 2017 (Journal Indexed in SCI)
 17. **Zwitterionic phosphorylcholine grafted chitosan nanofiber: Preparation, characterization and in-vitro cell adhesion behavior**
Oktay B., Kayaman Apohan N., Suleymanoglu M., Erdem-Kuruca S.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.73, pp.569-578, 2017 (Journal Indexed in SCI)
 18. **Superhydrophobic behavior of polyimide-siloxane mats produced by electrospinning**
OKTAY B., Toker R. D. , KAYAMAN APOHAN N.
POLYMER BULLETIN, vol.72, no.11, pp.2831-2842, 2015 (Journal Indexed in SCI)
 19. **Fabrication of collagen immobilized electrospun poly (vinyl alcohol) scaffolds**
Oktay B., Kayaman Apohan N., Erdem-Kuruca S., Suleymanoglu M.

- POLYMERS FOR ADVANCED TECHNOLOGIES, vol.26, pp.978-987, 2015 (Journal Indexed in SCI)
20. **Dual-crosslinked thiol-ene/sol gel hybrid electrospun nanowires: preparation and characterization**
Basturk E., OKTAY B., KAHRAMAN M. V.
JOURNAL OF POLYMER RESEARCH, vol.22, no.7, 2015 (Journal Indexed in SCI)
 21. **Immobilization of alpha-amylase onto poly(glycidyl methacrylate) grafted electrospun fibers by ATRP**
Oktay B., Demir S., Kayaman Apohan N.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.50, pp.386-393, 2015 (Journal Indexed in SCI)
 22. **Preparation and evaluation of linseed oil based alkyd paints**
Iseri-Caglar D., Basturk E., OKTAY B., KAHRAMAN M. V.
PROGRESS IN ORGANIC COATINGS, vol.77, no.1, pp.81-86, 2014 (Journal Indexed in SCI)
 23. **Polydimethylsiloxane (PDMS)-based antibacterial organic-inorganic hybrid coatings**
OKTAY B., KAYAMAN APOHAN N.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.10, no.6, pp.785-798, 2013 (Journal Indexed in SCI)
 24. **Highly porous starch/poly(ethylene-alt-maleic anhydride) composite nanofiber mesh**
OKTAY B., Basturk E., KAYAMAN APOHAN N., KAHRAMAN M. V.
POLYMER COMPOSITES, vol.34, no.8, pp.1321-1324, 2013 (Journal Indexed in SCI)
 25. **UV cured thiol-ene flame retardant hybrid coatings**
Basturk E., OKTAY B., KAHRAMAN M. V., KAYAMAN APOHAN N.
PROGRESS IN ORGANIC COATINGS, vol.76, no.6, pp.936-943, 2013 (Journal Indexed in SCI)
 26. **Maleimide Containing UV-Cured Hybrid Coatings**
OKTAY B., KAYAMAN APOHAN N.
ADVANCES IN POLYMER TECHNOLOGY, vol.32, no.2, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **Bioactivated poly (vinyl alcohol) /poly(acrylic acid) based nanofiber for high-performance membrane techniques**
Akbay T., Kahraman M. V., Oktay B., Kayaman Apohan N.
Letters in Applied NanoBioScience, vol.9, no.1, pp.819-823, 2020 (Refereed Journals of Other Institutions)
2. **Preparation of Stearic Acid/Graphene oxide Based Form-Stable Composite Phase Change Materials**
Oktay B.
International journal of advances in engineering and pure sciences (Online), vol.30, no.2, pp.119-125, 2018 (National Refreed University Journal)
3. **Multi-Walled Carbon Nanotube Reinforced Polyimide Composites**
OKTAY B., Türker S., KARATAŞ S., KAYAMAN APOHAN N.
Journal of the Turkish Chemical Society, Section A: Chemistry, pp.283-294, 2018 (Other Refereed National Journals)
4. **Preparation and modification of polyethersulfone-based hybrid materials**
OKTAY B., Baştürk E., KAHRAMAN M. V., KAYAMAN APOHAN N.
Spe Journal, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

1. **Diels-Alder Kiklenebilen Fosfor Modifie Silika Nanopartiülleri İçeren Alev Geciktiici Tiyo-En FotokürlemlenmişKaplamlar**
ÇAKMAKÇI E., OKTAY B.
31 Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019

2. **Uv İle Kürlenebilen Fosfor İçerikli Alev Geciktirici Malzemeler**
OKTAY B.
31. Ulusal Kimya Kongresi, Turkey, 10 September 2019
3. **Preparation and characterization of polyethylenimine cryogels**
OKTAY B.
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, 28 - 29 June 2019
4. **DESIGNING OF OFF-STOICHIOMETRY THIOL-ENE POLYMERS**
OKTAY B.
ULUSLARARASI MARMARA FEN VE SOSYAL BİLİMLER KONGRESİ, 26 - 28 April 2019
5. **Starch-Based Biocomposite Nanofibers**
OKTAY B., Baştürk E., KAHRAMAN M. V. , KAYAMAN APOHAN N.
1st International Symposium on Light Alloys and Composite Materials, 22 - 24 March 2018
6. **POLY(METHACRYLOYLOXY ETHYL PHOSPHATE) GRAFTED PVDF POLYMER ELECTROLYTE MEMBRANES VIA SURFACE INITIATED ATRP**
KAYAMAN APOHAN N., OKTAY B., Uğur M. H.
4th International Conference on New Trends in Chemistry, 11 - 13 May 2018
7. **The Preparation of Fluorine and Graphene Oxide Containing Hydrophobic Nanocomposite Coatings**
KAYAMAN APOHAN N., Akhan S., OKTAY B., MADAKBAŞ S.
4th International Conference on New Trends in Chemistry, 11 - 13 May 2018
8. **The Preparation of Fluorine and Graphene Oxide Containing Hydrophobic Nanocomposite Coating**
APOHAN N. K. , AKHAN S., OKTAY B., MADAKBAŞ S.
icntc CONFERENCE 2018, St.Petersburg, Russia, 11 - 13 May 2018
9. **The Preparation of Fluorine and Graphene Oxide Containing Hydrophobic Nanocomposite Coatings**
KAYAMAN APOHAN N., AKHAN S., OKTAY B., MADAKBAŞ S.
4th International Conference on New Trends in Chemistry, St.Petersburg, Russia, 11 - 13 May 2018
10. **BİYOPOLİMER ESASLI KRİYOJEL DOKU İSKELELERİ**
OKTAY B., Kutlusoy T., KAYAMAN APOHAN N., SÜLEYMANOĞLU M., KURUCA D. S.
1st International Symposium on Innovative Approaches in Scientific Studies, 11 April - 13 August 2018
11. **Preparation Of Polyethersulfone/ Poly(Trimethoxysilyl) Propyl Methacrylate) Composites**
OKTAY B., BAŞTÜRK E., KAHRAMAN M. V. , KAYAMAN APOHAN N.
East West chemistry Conference, 12 - 14 October 2017
12. **Tissue Engineering Studies of Chitosan-co-hyaluronic Acid Porous Cryogels**
OKTAY B., Kutlusoy T., KAYAMAN APOHAN N., Süleymanoğlu M., KURUCA D. S.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017
13. **MAGNETIC FIELD SENSITIVE BIOPOLYMER HYDROGELS IN CONTROLLED DRUG DELIVERY SYSTEMS**
OKTAY B., DEMİR S., KAYAMAN APOHAN N.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017
14. **Poli glisidil metakrilat Aşılansız Nanolif Esaslı Malzemelerin Hazırlanması ve Karakterizasyonu**
OKTAY B., KAYAMAN APOHAN N.
3.Ulusal Organik kimya kongresi, Turkey, 5 - 08 September 2016
15. **Preparation of Well Defined Chitosan Nanofibers by Atom Transfer Radical**
KAYAMAN APOHAN N., OKTAY B., Erdem Kuruca S.
International Conference on Chemical and Polymer Engineering., 21 July 2015
16. **Preparation of Well Defined Chitosan Nanofibers by Atom Transfer Radical Polymerization**
KAYAMAN APOHAN N., OKTAY B., KURUCA D. S.
Proceedings of the World Congress on Mechanical, Chemical, and Material Engineering (MCM 2015), Barselona, 20 - 21 July 2015
17. **Removal of fluoxetine from milk by using immunosorbent featured surface**
TUNALI AKBAY T., KAHRAMAN M. V. , KAYAMAN APOHAN N., OKTAY B., İPEKÇİ H.
4th International Meeting on Pharmacy & Pharmaceutical Sciences (IMPPS-4). 18-21 September 2014 Istanbul, Turkey., 18 - 21 September 2014

18. **Immunosorbent surface removes cotinine from milk**
TUNALI AKBAY T., KAHRAMAN M. V. , KAYAMAN APOHAN N., İPEKÇİ H., OKTAY B.
4th International Meeting on Pharmacy & Pharmaceutical Sciences (IMPPS-4). 18-21 September 2014 Istanbul, Turkey, 18 - 21 September 2014
19. **Preparation and evaluation of linseed oil based alkyd paints**
İŞERİ D., BAŞTÜRK E., OKTAY B., KAHRAMAN M. V.
Paint İstanbul 2012, 13 - 15 September 2012
20. **Modified nano silica containing thiol ene systems**
OKTAY B., KAYAMAN APOHAN N., KAHRAMAN M. V.
Paint İstanbul 2012., 13 - 15 September 2012
21. **UV cured thiol ene flame retardant hybrid coatings**
BAŞTÜRK E., OKTAY B., KAYAMAN APOHAN N., KAHRAMAN M. V.
Paint İstanbul 2012, 13 - 15 September 2012
22. **Nano silver containing antibacterial hybrid coatings**
OKTAY B., KAYAMAN APOHAN N.
7th Nanoscience and Naotechnology Conference, 1 - 04 June 2012
23. **Effects of nano sized titanium dioxide and silica particles on tensile properties of polymethyl methacrylate PMMA denture base materials**
Kurt A., OKTAY B., KAYAMAN APOHAN N., Işık G.
8th Nanoscience and Naotechnology Conference., 4 - 05 May 2012

Academic and Administrative Experience

2021 - Continues	Deputy Head of Department	Marmara University, Faculty Of Arts And Sciences, Chemistry
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Courses

Genel Kimya Laboratuvarı, Undergraduate, 2021 - 2022
Polimer Kimyası, Undergraduate, 2019 - 2020
Organik Kimya, Undergraduate, 2018 - 2019, 2019 - 2020
Polimerlerde Yapı Özellik İlişkileri , Postgraduate, 2018 - 2019

Advising Theses

Oktay B., Biyo-bazlı Kendiliğinden Çapraz Bağlanabilen Süper-Hidrofobik Kaplamaların Sentezi Ve Karakterizasyonu, Postgraduate, İ.Güneş(Student), Continues
Oktay B., Biyo-esash Vitrimierlerin Hazırlanması ve Karakterizasyonu , Doctorate, F.Betül(Student), Continues
Oktay B., Kayaman Apohan N., Enerji Depolama Sistemleri için Fonksiyonel Nano-yapıların Tasarımı, Postgraduate, İ.Cenik(Student), Continues
Oktay B., Kayaman Apohan N., İyonik Sıvı Destekli PVDF Polielektrolitlerin Kontrollü Polimerizasyon ile Hazırlanması ve Karakterizasyonu, Postgraduate, B.Bekdaş(Student), 2021
Oktay B., Kayaman Apohan N., Çekirdek Kabuk Tipi Poliakrilat Hidroksi Apatit İlaç Taşıyıcıların Kontrollü Polimerizasyon ile Sentezi ve Karakterizasyon Çalışmaları, Postgraduate, G.Koçal(Student), 2020

Citations

Total Citations (WOS):294

h-index (WOS):10

Research Areas

Chemistry, Organic Chemistry, Natural Sciences, Engineering and Technology