

Assoc. Prof. OLCAY MERT

Personal Information

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Polymer Science And Technology, Turkey 2003 - 2011

Dissertations

Doctorate, Thermosensitive biodegradable mPEG-PLLA block copolymers: Syntheses, characterizations and applications in drug delivery systems Synthesis and properties of novel electrochromic polythienylpyrrole, Middle East Technical University, Graduate School Of Natural And Applied Sciences, 2011

Research Areas

Physical Chemistry

Academic Titles / Tasks

Associate Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2015 - Continues

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2013 - 2015

Research Assistant, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2011 - 2013

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2003 - 2011

Research Assistant, Johns Hopkins University, Müh. Fak., Chemical And Biomolecular Engineering Dept, 2008 - 2009

Professional Experience

Head of Department, Kocaeli University, Fen Bilimleri Enstitüsü, 2017 - 2020

Courses

Genel kimya 1, Under Graduate, 2019 - 2020

Drug Chemistry, Under Graduate, 2019 - 2020

Advising Theses

Mert O., Amin fonksiyonel poli (bütirolakton-alkil glikolid) - MePEG kopolimerleri, Post Graduate, Y.ÇOLAK(Student),

2019

Mert O., İlaç salım sistemleri için yeni ısıya hassas amin fonksiyonel poliglikolid-polilaktid-PEG kopolimerlerinin sentezleri, Post Graduate, S.ERDOĞAN(Student), 2017

Mert O., Lokal ilaç salım sistemleri için yeni ısıya hassas poli(izobütil metil glikolid)-peg blok kopolimerlerinin sentezi ve özellikleri, Post Graduate, D.ÇETİN(Student), 2017

Mert O., Yeni bor bazlı nanomalzemelerin üretilmesi ve ilaç salım sistemlerinde kullanılması, Post Graduate, A.VARDAR(Student), 2017

Mert O., Yeni bor bazlı 3,6-diizobütil-1,4-dioksan-2,5-dion polimerlerinin sentezleri ve ilaç salım sistemlerinde uygulamaları, Post Graduate, H.AYBÜKE(Student), 2015

Mert O., İlaç salım sistemleri için yeni poli(Diizopropil Glikolid)-peg blok kopolimerlerinin sentezleri ve özellikleri, Post Graduate, M.ONUR(Student), 2014

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

- **Effect of Octavinyl-Polyhedral Oligomeric Silsesquioxane on the Cross-linking, Cure Kinetics, and Adhesion Properties of Natural Rubber/Textile Cord Composites**
Yazıcı N., Dursun S., Yarici T., Kilic B., MERT O., KARAAĞAÇ B., ÖZKOÇ G., KODAL M.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.59, pp.1888-1901, 2020 (Journal Indexed in SCI)
- **Amine-Functionalized Polylactide-PEG Copolymers**
Arıcan M. O. , Erdogan S., MERT O.
MACROMOLECULES, vol.51, pp.2817-2830, 2018 (Journal Indexed in SCI)
- **Synthesis and properties of novel diisopropyl-functionalized polyglycolide-PEG copolymers**
Arıcan M. O. , MERT O.
RSC ADVANCES, vol.5, pp.71519-71528, 2015 (Journal Indexed in SCI)
- **Synthesis and characterization of substituted salicylate zirconium compounds and their catalytic activity over epsilon-caprolactone**
MERT O., KAYAN A.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.80, pp.409-416, 2014 (Journal Indexed in SCI)
- **Pretreatment of Human Cervicovaginal Mucus with Pluronic F127 Enhances Nanoparticle Penetration without Compromising Mucus Barrier Properties to Herpes Simplex Virus**
Ensign L. M. , Lai S. K. , Wang Y., Yang M., Mert O., Hanes J., Cone R.
BIOMACROMOLECULES, vol.15, pp.4403-4409, 2014 (Journal Indexed in SCI)
- **Preparation of L-Lactide/3-Glycidyoxypropyltrimethoxysilane Copolymeric Materials with Various Catalysts**
KAYAN A., MERT O.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.24, pp.1055-1062, 2014 (Journal Indexed in SCI)
- **Vaginal Delivery of Paclitaxel via Nanoparticles with Non-Mucoadhesive Surfaces Suppresses Cervical Tumor Growth**
Yang M., Yu T., Wang Y., Lai S. K. , Zeng Q., Miao B., Tang B. C. , Simons B. W. , Ensign L. M. , Liu G., et al.
ADVANCED HEALTHCARE MATERIALS, vol.3, pp.1044-1052, 2014 (Journal Indexed in SCI)
- **Synthesis of silyliminophenolate zirconium compounds and their catalytic activity over lactide/epoxide**
MERT O., KAYAN A.
APPLIED CATALYSIS A-GENERAL, vol.464, pp.322-331, 2013 (Journal Indexed in SCI)
- **Pyrrole coupling chemistry: investigation of electroanalytic, spectroscopic and thermal properties of N-substituted poly(bis-pyrrole) films**
MERT O., DEMİR A. G. , Cihaner A.
RSC ADVANCES, vol.3, pp.2035-2042, 2013 (Journal Indexed in SCI)

- **Sol-gel Approaches for Elaboration of Polyol Dehydrogenase-Based Bioelectrodes**
Urbanova V., Kohring G., Klein T., Wang Z., Mert O., Emrullahoglu M., Buran K., DEMİR A. G. , Etienne M., Walcarius A.
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS, vol.227, pp.667-689, 2013 (Journal Indexed in SCI)
- **Biodegradable mucus-penetrating nanoparticles composed of diblock copolymers of polyethylene glycol and poly(lactic-co-glycolic acid)**
Yu T., Wang Y., Yang M., Schneider C., Zhong W., Pulicare S., Choi W., Mert O., Fu J., Lai S. K. , et al.
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, vol.2, pp.124-128, 2012 (Journal Indexed in SCI)
- **A poly(ethylene glycol)-based surfactant for formulation of drug-loaded mucus penetrating particles**
Mert O., Lai S. K. , Ensign L., Yang M., Wang Y., Wood J., Hanes J.
JOURNAL OF CONTROLLED RELEASE, vol.157, pp.455-460, 2012 (Journal Indexed in SCI)
- **Injectable biodegradable polymeric system for preserving the active form and delayed-release of camptothecin anticancer drugs**
Mert O., ESENDAĞLI G., DOĞAN A., DEMİR A. G.
RSC ADVANCES, vol.2, pp.176-185, 2012 (Journal Indexed in SCI)
- **Drug carrier nanoparticles that penetrate human chronic rhinosinusitis mucus**
Lai S. K. , Suk J. S. , Pace A., Wang Y., Yang M., Mert O., Chen J., Kim J., Hanes J.
BIOMATERIALS, vol.32, pp.6285-6290, 2011 (Journal Indexed in SCI)
- **A Berzelius Reagent, Phosphorus Decasulfide (P₄S₁₀), in Organic Syntheses**
Öztürk T., Ertas E., Mert O.
CHEMICAL REVIEWS, vol.110, pp.3419-3478, 2010 (Journal Indexed in SCI)
- **A novel electrochromic and fluorescent polythienylpyrrole bearing 1,1'-bipyrrrole**
Cihaner A., Mert O., DEMİR A. G.
ELECTROCHIMICA ACTA, vol.54, pp.1333-1338, 2009 (Journal Indexed in SCI)
- **Surface Characterization of Poly(l-lactic acid)–Methoxy Poly(ethylene glycol) Diblock Copolymers by Static and Dynamic Contact Angle Measurements, FTIR, and ATR-FTIR**
Mert O., Doğancı E., Erbil H. Y. , Demir A. S.
Langmuir, vol.24, pp.749-757, 2008 (Journal Indexed in SCI)
- **Use of Lawesson's reagent in organic syntheses**
Ozturk T., Ertas E., Mert O.
CHEMICAL REVIEWS, vol.107, pp.5210-5278, 2007 (Journal Indexed in SCI)
- **Electrochromic properties of poly(diphenyldithieno[3,2-b; 2',3'-d]thiophene)**
Mert O., Sahin E., Ertas E., Ozturk T., Aydin E. A. , Toppare L.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.591, pp.53-58, 2006 (Journal Indexed in SCI)
- **Dithienothiophenes**
Ozturk T., Ertas E., Mert O.
TETRAHEDRON, vol.61, pp.11055-11077, 2005 (Journal Indexed in SCI)
- **Transformation of a simple plastic into a superhydrophobic surface**
ERBİL H. Y. , DEMİREL A. L. , Avci Y., Mert O.
SCIENCE, vol.299, pp.1377-1380, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Synthesis and Characterization of Novel Copolymers of Poly (isopentenyl PEG - co-allyl PEG), Their Performance in Cement Mortar and Comparison with Physical Blends**
DİZDAR Z., MERT O., ÖZKOÇ G.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, pp.759-773, 2018 (Journal Indexed in ESCI)
- **Investigation of The Stabilization of Camptothecin Anticancer Drug via PSA-PEG Polymeric Particles**
Kizisar D., SUBAŞI N. T. , ERÖKSÜZ S., Demir A. S. , MERT O.

Refereed Congress / Symposium Publications in Proceedings

- **Nanoformulations of Novel Boron Based Polyesters for Use in Drug Delivery Systems**
ARICAN M. O. , AYBÜKE H. K. , DURUKSU G., YILDIZ U., KAYAN A., MERT O.
4th International BAU Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016
- **Synthesis of Poly isobutyl methyl glycolide and Poly isobutyl ethyl glycolide Polymers for Use In Drug Delivery Systems**
MERT O., vardar a., arican m. o. , YILDIZ U., KAYAN A.
4th international BAU drug design congress, 13 - 15 Ekim 2016
- **syntheses and nanoformulations of novel boron based poly diisobutyl glycolide homopolymers and their copolymers with lactide for drug delivery sytems**
arican m. o. , kandıra a. h. , DURUKSU G., YILDIZ U., KAYAN A., MERT O.
46th IUPAC World Polymer Congress, 17 - 21 Temmuz 2016
- **Synthesis and characterization of new class of boron based asymmetric poly substituted glycolides for biomedical applications**
vardar a., arican m. o. , YILDIZ U., KAYAN A., MERT O.
46th IUPAC world polymer congress MACRO2016, 17 Temmuz 2016
- **The Stabilization of Camptothecin Anticancer Drug via Phosphazene Cored and Miktoarm Star Shaped Polymeric Nanocarriers**
ÇETİN D., ARICAN M. O. , DOĞANCI E., OLGAC N., GÖRÜR M., YILMAZ F., MERT O.
IUPAC WORLD POLYMER CONGRESS (MACRO 2016), İstanbul, Turkey, 17 - 21 July 2016
- **Ring opening polymerizations of epoxide GPTS and lactide with the catalysts of silyliminophenolate based zirconium compounds**
MERT O., KAYAN A.
ACS national meeting, Boston, (2015), 16 - 20 Ağustos 2015
- **Syntheses and Characterizations of Poly Diethyl Glycolide Polymers**
MEHMET ONUR A., KAYAN A., YILDIZ U., MERT O.
EPF2015, European Polymer Congress, Dresden, Germany, (2015), 21 - 23 Haziran 2015
- **Yeni Bor Bazlı Biyomalzemelerin Sentezleri ve İlaç Sistemlerinde Uygulamaları**
MERT O., KAYAN A.
Fiziksel Kimya Kongresi, Denizli, 2014, Turkey, 5 - 07 Haziran 2015
- **ORGN 556-Synthesis of dithieno [3,2-b:2'xx,3'xx-d] thiophene derivatives from 1,8 diketones**
MERT O., Demir A. S. , ÖZTÜRK T., EROKSUZ S.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 10 - 14 Eylül 2006
- **PLA PEG Diblok Kopolimer Yüzeylerinin Sentez ve Karakterizasyonu**
DOĞANCI E., ERBİL H. Y. , MERT O., DEMİR A. S.
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 Eylül 2006

Supported Projects

MERT O., Project Supported by Higher Education Institutions, TOKSİK OLMAYAN DEMİR(III) PERKLORAT KATALİZÖRÜ İLE ODA SICAKLIĞINDA ETİL-METİL GLİKOLİD MONOMERİNİN POLİMERİZASYONU VE KİNETİK ÇALIŞMALARI, 2018 - 2019

MERT O., Project Supported by Higher Education Institutions, GUANİDİN SÜPER BAZ ORGANOKATALİZÖRÜ (TBD) İLE ASİMETRİK İZOPROPİL-METİL GLİKOLİD VE ?-NBOC-?-BÜTİROLAKTONUN KOPOLİMERİZASYONU, 2018 - 2018

MERT O., Project Supported by Higher Education Institutions, YENİ BOR BAZLI POLİ(İZOLÖSİN METİL GLİKOLİD)

(PILMG) VE POLİ(İZOLÖSİN ETİL GLİKOLİD) (PILEG) NANOMALZEMELERİN ÜRETİLMESİ VE İLAÇ SALIM SİSTEMLERİNDE KULLANILMASI, 2017 - 2017

MERT O., Project Supported by Higher Education Institutions, LOKAL İLAÇ SALIM SİSTEMLERİ İÇİN ENJEKTE EDİLEBİLİR VE ISIYA HASSAS POLİ(İZOBÜTİL METİL GLİKOLİD)-PEG HİDROJELLERİN SENTEZİ VE ÖZELLİKLERİ, 2017 - 2017

MERT O., Project Supported by Higher Education Institutions, POLİ (MENTİT)-PEG KOPOLİMERLERİNİN SENTEZLERİ VE ISIYA KARŞI DAVRANIŞLARININ İNCELENMESİ, 2016 - 2017

MERT O., Project Supported by Higher Education Institutions, YENİ POLİESTER-b-POLİETER BLOK KOPOLİMERLERİN SENTEZLERİ VE ANTİENFLAMATUAR İLAÇLAR İLE FORMÜLASYONLARI, 2015 - 2016

MERT O., Project Supported by Higher Education Institutions, İlaç Salım Sistemlerinde Kullanılmak Üzere Yeni Biyouyumlu Biyobozunur Nanomalzemelerin Üretilmesi, 2014 - 2015

MERT O., Project Supported by Higher Education Institutions, YENİ BOR BAZLI KATALİZÖRLERİN SEMTEZİ VE POLİMERLEŞMELERDE TEST EDİLMESİ, 2014 - 2014

Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kocaeli University, Turkey, January 2020

Citations

Total Citations (WOS):2245

h-index (WOS):11