

Asst. Prof. Onur Alptürk

Personal Information

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Education Information

Doctorate, Louisiana State University and Agricultural and Mechanical College, Department Of Chemistry, United States Of America 2001 - 2007

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya (YI) (Tezli), Turkey 1998 - 2001

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1993 - 1998

Foreign Languages

English

Dissertations

Doctorate, Lanthanide Complexes as Fluorescent Indicators for Neutral Sugars and Cancer Biomarkers, Louisiana State University And Agricultural And Mechanical College, Department Of Chemistry, 2007

Postgraduate, The Effect of camptothecin, camptothecin-20-acetate and some biologically active compounds on glutathione s-transferase activity, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyokimya (YI) (Tezli), 2001

Research Areas

Basic Sciences, Chemistry, Biochemistry, Bioorganic Chemistry, Protein Chemistry, Organic Chemistry, Chemistry of Macromolecules

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2018 - Continues

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2012 - 2018

Research Assistant, Louisiana State University and Agricultural and Mechanical College, Faculty Of Arts And Science, Department Of Chemistry, 2001 - 2012

Research Assistant, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya (YI) (Tezli), 1998 - 2001

Advising Theses

Alptürk O., Yılmaz Ö., ilaç Taşıyıcı Sistemlerde Kullanılmak Üzere Kansere Hedeflendirilmiş Poli(2-Etil-2-Oksazolin)

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, biocompatibility and gene encapsulation of poly(2-Ethyl 2-Oxazoline)-dioleoyl phosphatidylethanolamine (PEtOx-DOPE) and post-modifications with peptides and fluorescent dye coumarin**
Gulyuz S., Bayram D., Ozkose U. U. , Bolat Z. B. , Kocak P., Saka O. M. , Devrim B., Khalily M. P. , Telci D., Sahin F., et al.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.70, no.14, pp.981-993, 2021 (Journal Indexed in SCI)
- II. **Poly(2-ethyl-2-oxazoline-co-ethyleneimine)-block-poly(epsilon-caprolactone) based micelles: synthesis, characterization, peptide conjugation and cytotoxic activity**
Gulyuz S., Ozkose U. U. , Khalily M. P. , KESİCİ M. S. , Kocak P., Bolat Z. B. , KARA A., ÖZTÜRK N., ÖZÇUBUKÇU S., BOZKIR A., et al.
NEW JOURNAL OF CHEMISTRY, vol.45, pp.14532-14547, 2021 (Journal Indexed in SCI)
- III. **The synthesis of peptide-conjugated poly(2-ethyl-2-oxazoline)-b-poly(L-lactide) (PEtOx-b-PLA) polymeric systems through the combination of controlled polymerization techniques and click reactions**
Ozkose U. U. , Gulyuz S., Parlak Khalily M., ÖZÇUBUKÇU S., BOZKIR A., TAŞDELEN M. A. , Alptürk O., Yilmaz O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, 2021 (Journal Indexed in SCI)
- IV. **Synthesis of poly(2-ethyl-2-oxazoline)-b-poly(epsilon-caprolactone) conjugates by a new modular strategy**
Ozkose U. U. , Yilmaz O., Alptürk O.
POLYMER BULLETIN, vol.77, no.11, pp.5647-5662, 2020 (Journal Indexed in SCI)
- V. **Coupling layer-by-layer assembly and multilayer transfer to fabricate flexible transparent film heater**
Oytun F., Alptürk O., Basarir F.
MATERIALS RESEARCH BULLETIN, vol.112, pp.53-60, 2019 (Journal Indexed in SCI)
- VI. **Fabrication of solution-processable, highly transparent and conductive electrodes via layer-by-layer assembly of functional silver nanowires**
OYTUN F., KARA V., Alptürk O., BAŞARIR F.
THIN SOLID FILMS, vol.636, pp.40-47, 2017 (Journal Indexed in SCI)
- VII. **In-situ preparation of poly(2-ethyl-2-oxazoline)/clay nanocomposites via living cationic ring-opening polymerization**
OZKOSE U. U. , Altinkok Ç., YILMAZ O., Alptürk O., Tasdelen M. A.
EUROPEAN POLYMER JOURNAL, vol.88, pp.586-593, 2017 (Journal Indexed in SCI)
- VIII. **Preparation of transparent conducting electrode on polysulfone film via multilayer transfer of layer-by-layer assembled carbon nanotubes**
Oytun F., Dizman C., Karatepe N., Alptürk O., Başarır F.
THIN SOLID FILMS, vol.625, pp.168-176, 2017 (Journal Indexed in SCI)
- IX. **Apoptotic and chemotherapeutic properties of iron III salophene in an ovarian cancer animal model**
Brard L., McCourt C., Singh R. K. , Kim K. K. , Singh A. P. , Luisi B. S. , Alptürk O., Alptürk O., Strongin R. M.
DRUG DESIGN DEVELOPMENT AND THERAPY, vol.0, pp.17-0, 2016 (Journal Indexed in SSCI)
- X. **Novel high-throughput screen identifies an HIV-1 reverse transcriptase inhibitor with a unique mechanism of action**
Sheen C., ALPTUERK O., SLUIS-CREMER N.
BIOCHEMICAL JOURNAL, vol.462, pp.425-432, 2014 (Journal Indexed in SCI)
- XI. **Synthesis and Anti-HIV-1 Activity of a Novel Series of Aminoimidazole Analogs**
GANGULY S., MURUGESAN S., PRASANTHI N., Alpturk O., Herman B., Sluis-Cremer N.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.7, no.5, pp.318-323, 2010 (Journal Indexed in SCI)

- XII. **Determination of enantiomeric compositions of analytes using novel fluorescent chiral molecular micelles and steady state fluorescence measurements**
Williams A. A. , Fakayode S. O. , ALPTUERK O., JONES C. M. , LOWRY M., Strongin R. M. , WARNER I. M.
JOURNAL OF FLUORESCENCE, vol.18, no.2, pp.285-296, 2008 (Journal Indexed in SCI)
- XIII. **Stereochemical and regiochemical trends in the selective detection of saccharides**
Jiang S., ESCOBEDO J. O. , KIM K. K. , Alpturk O., SAMOEI G. K. , FAKAYODE S. O. , WARNER I. M. , RUSIN O., STRONGIN R. M.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.128, no.37, pp.12221-12228, 2006 (Journal Indexed in SCI)
- XIV. **Lanthanide complexes as fluorescent indicators for neutral sugars and cancer biomarkers**
Alpturk O., RUSIN O., FAKAYODE S. O. , WANG W., ESCOBEDO J. O. , WARNER I. M. , CROWE W. E. , KRAL V., PRUET J. M. , STRONGIN R. M.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.103, no.26, pp.9756-9760, 2006 (Journal Indexed in SCI)
- XV. **Macrocycle-derived functional xanthenes and progress towards concurrent detection of glucose and fructose**
Rusin O., Alpturk O., HE M., ESCOBEDO J., JIANG S., DAWAN F., LIAN K., MCCARROLL M., WARNER I., STRONGIN R.
JOURNAL OF FLUORESCENCE, vol.14, no.5, pp.611-615, 2004 (Journal Indexed in SCI)
- XVI. **Conversion of homochiral amines, beta-amino alcohols and alpha-amino acids to their chiral 2-substituted pyrrole derivatives**
Demir A., AKHMEDOV I., SESENOGLU O., Alpturk O., APAYDIN S., GERCEK Z., IBRAHIMZADE N.
JOURNAL OF THE CHEMICAL SOCIETY-PERKIN TRANSACTIONS 1, no.10, pp.1162-1167, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Modeling the Ca²⁺/CaMKII network of LTP in the JigCell Environment**
Alptürk O.
European Journal of Technique, no.11, pp.71-77, 2021 (Other Refereed National Journals)
- II. **Design and synthesis of novel peptidomimetics for cancer immunotherapy**
Kose C., Uysal E., Yazici B., Tugay Z., Dingis-Birgul S. I. , Yanik H., Tavukcuoglu E., Gulyuz S., AKDEMİR A., ESENDAĞLI G., et al.
ORGANIC COMMUNICATIONS, vol.13, no.3, pp.89-102, 2020 (Journal Indexed in ESCI)
- III. **Optimization of synthetic route to PNA-T-OH monomers**
ALPTÜRK O., YEŞİLBAŞ S., SARIOĞLU G., KARAÇAYLI A., SAYLAM A., ÖZÇUBUKÇU S.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, no.2, pp.457-468, 2018 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Chemical processes in memory formation: from mathematical model to simulation**
Alptürk O., Şengör N. S.
Ulusal Sinirbilim Kongresi 2018, İstanbul, Turkey, 20 May - 23 October 2018
- II. **HIV 1 Reverse Transcriptase fidelity variants alter levels of mutation during replication**
NİSSLEY D. V. , ALPTÜRK O., AMBROSE Z., EATON K., STRATHERN J. N. , SLUIJ CREMER N.
XVIII International HIV Drug Resistance Workshop, 9 - 13 July 2013
- III. **The Effect of Camptothecin and Camptothecin 20 Acetate on Glutathione S Transferase**
ALPTÜRK O., DEMİR A. S. , İŞCAN M.
American Association of Pharmaceutical Sciences, 21 - 25 October 2001

Supported Projects

Alptürk O., Sarıođlu G., Project Supported by Higher Education Institutions, Benzotiyazol Tabanlı Taşıyıcı Molekülerin Sentezi, 2018 - 2019

Alptürk O., Yeşilbaş Z. S. , Project Supported by Higher Education Institutions, Floresan İşaretili Katyonik Antibakteriyel Peptitlerin Sentezi, 2018 - 2018

Alptürk O., Project Supported by Higher Education Institutions, Asimetrik Merkezlerin PNA-DNA Bağlanması Üzerine Olan Etkileri, 2015 - 2018

Alptürk O., Project Supported by Higher Education Institutions, Peptit Nükleik Asitlerin dsDNA'ya Bağlanma Termodinamiklerinin İncelenmesi, 2014 - 2018

Activities in Scientific Journals

Asian Journal of Nanotechnology and Nanomaterials, Committee Member, 2018 - Continues

Citations

Total Citations (WOS):261

h-index (WOS):8