

MD TAYFUN VURAL

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Bölümü / Biyokimya A.D., Turkey 2009 - 2016

Post Graduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Bölümü / Biyokimya A.D., Turkey 2008 - 2009

Under Graduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 2003 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Kanser Teşhisine Yönelik Elektrokimyasal İmmüno-biyosensör Geliştirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2016

Post Graduate, Karbon nanotüp esaslı biyosensörlerin geliştirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2009

Research Areas

Life Sciences, Biochemistry, Biotechnology, Chemistry, Analytical Chemistry, Electromagnetic Methods, Natural Sciences

Academic Titles / Tasks

Research Assistant, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2010 - Continues

Courses

Hayatı Kolaylaştıran Biyoteknoloji, Under Graduate, 2017 - 2018

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

- Magnetically Responsive, Sorafenib Loaded Alginate Microspheres for Hepatocellular Carcinoma Treatment**
Alpdemir Ş., Vural T., Kara G., Bayram C., Haberal E., Denkbaş E. B.
Iet Nanobiotechnology, no.8, pp.1-8, 2020 (Journal Indexed in SCI Expanded)
- Saponin loaded montmorillonite-human serum albumin nanocomposites as drug delivery system in**

colorectal cancer therapy

AKBAL Ö, VURAL T, MALEKGHAŞEMI S, Bozdogan B, DENKBAŞ E. B.

APPLIED CLAY SCIENCE, vol.166, pp.214-222, 2018 (Journal Indexed in SCI)

- III. **Development of Titania Nanotube-based Electrochemical Immunosensor and Determination of Prostate Specific Antigen**
KIZILTAN D., VURAL T., BAYRAM C., OZTURK S., BOZDOGAN B., YAMAN Y. T. , ABACI S., DENKBAŞ E. B.
ANALYTICAL SCIENCES, vol.34, no.7, pp.789-794, 2018 (Journal Indexed in SCI)
- IV. **Synthesis and comparison of crosslinked peptide nanoparticles based on diphenylalanine derivatives**
BOZDOGAN B., AKBAL Ö., VURAL T., DENKBAŞ E. B.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.9, 2018 (Journal Indexed in SCI)
- V. **Sensitive electrochemical detection of fenitrothion pesticide based on self-assembled peptide-nanotubes modified disposable pencil graphite electrode**
BOLAT G., ABACI S., VURAL T., BOZDOGAN B., DENKBAŞ E. B.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.809, pp.88-95, 2018 (Journal Indexed in SCI)
- VI. **Electrochemical immunoassay for detection of prostate specific antigen based on peptide nanotube-gold nanoparticle-polyaniline immobilized pencil graphite electrode**
VURAL T., YAMAN Y. T. , OZTURK S., ABACI S., DENKBAŞ E. B.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.510, pp.318-326, 2018 (Journal Indexed in SCI)
- VII. **Comparison of protein- and polysaccharide-based nanoparticles for cancer therapy: synthesis, characterization, drug release, and interaction with a breast cancer cell line**
Akbal O., Erdal E., VURAL T., Kavaz D., DENKBAŞ E. B.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.45, no.2, pp.193-203, 2017 (Journal Indexed in SCI)
- VIII. **Guided and magnetic self-assembly of tunable magnetoceptive gels**
Tasoglu S., Yu C. H. , Gungordu H. I. , Guven S., Vural T., Demirci U.
NATURE COMMUNICATIONS, vol.5, 2014 (Journal Indexed in SCI)
- IX. **Disposable pencil graphite electrode modified with peptide nanotubes for Vitamin B-12 analysis**
PALA B. B. , VURAL T., Kuralay F., CIRAK T., BOLAT G., ABACI S., DENKBAŞ E. B.
APPLIED SURFACE SCIENCE, vol.303, pp.37-45, 2014 (Journal Indexed in SCI)
- X. **Carbon nanotube-chitosan modified disposable pencil graphite electrode for Vitamin B-12 analysis**
KURALAY F., VURAL T., BAYRAM C., DENKBAŞ E. B. , ABACI S.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.87, no.1, pp.18-22, 2011 (Journal Indexed in SCI)
- XI. **Oxidative Stress Parameters of L929 Cells Cultured on Plasma-Modified PDLA Scaffolds**
Demirbilek M. E. , Demirbilek M., Karahaliloglu Z., Erdal E., VURAL T., YALÇIN E., SAĞLAM N., DENKBAŞ E. B.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.164, no.6, pp.780-792, 2011 (Journal Indexed in SCI)
- XII. **Preparation and physical/electrochemical characterization of carbon nanotube-chitosan modified pencil graphite electrode**
VURAL T., KURALAY F., BAYRAM C., ABACI S., DENKBAŞ E. B.
APPLIED SURFACE SCIENCE, vol.257, no.2, pp.622-627, 2010 (Journal Indexed in SCI)
- XIII. **In Vitro S. epidermidis and S. aureus Adherence to Composite and Lightweight Polypropylene Grafts**
Aydinuraz K., Agalar C., Agalar F., Ceken S., Duruyurek N., VURAL T.
JOURNAL OF SURGICAL RESEARCH, vol.157, no.1, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The effect of the nanofilled adhesive systems on shear bond strength of all ceramics to dentin**
KEYF F., ÖZLÜ Ş., VURAL T., DENKBAŞ E. B.
SRM Journal of Research in Dental Sciences, vol.6, pp.75-81, 2015 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Electrochemical Biosensors for Detection of Important Molecules**
YAMAN Y. T. , VURAL T., AKBAL Ö., ABACI S.
in: Advanced Electrochemistry, Abaci Serdar, Editor, HACETTEPE, Ankara, pp.49-74, 2018
- II. **Surface Modifications of Electrodes with Different Strategies**
VURAL T., AKBAL Ö., YAMAN Y. T. , malekghasemi s., ABACI S.
in: Advanced Electrochemistry, Abaci Serdar, Editor, HACETTEPE, Ankara, pp.75-90, 2018
- III. **Applications of Hydrogels in 3D Functional Tissue Models**
VURAL T.
in: Applications of Hydrogels in Regenerative Medicine, Demirci U., Khademhosseini A., Editor, World Scientific Publishing Co., Massachusetts, pp.87-110, 2016

Supported Projects

- Vural T., TUBITAK Project, Balast Sularındaki Fitoplanktonların Nicel Tayini için Mikroakışkan Sistem Geliştirilmesi, 2018 - 2020
- BAYRAM C., Yaman Y. T. , Öztürk S., ÇELİK E., VURAL T., Project Supported by Higher Education Institutions, Titanyum Dioksit Nanotüp Dizilerine Sahip Titanyum Yüzeylerinin Üretimi ve Elektroanalitik Biyosensör Uygulamaları, 2017 - 2019
- VURAL T., ABACI S., Project Supported by Higher Education Institutions, Baharatlardaki Tağşışın Ekonomik, Hızlı ve Duyarlı Tespitine Yönelik Kolorimetrik Test Striplerinin Geliştirilmesi, 2017 - 2018
- VURAL T., ÇELİK E., BAYRAM C., DENKBAŞ E. B. , Project Supported by Higher Education Institutions, Artiküler kıkırdak taklitçisi istiflenmiş hidrojel yapılarının kondrosit farklılaşmasına etkisinin araştırılması, 2016 - 2018
- Vural T., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, BAHARATLARDAKİ TAĞŞIŞIN EKONOMİK, HIZLI VEDUYARLI TESPİTİNE YÖNELİK KOLORİMETRİK TESTSTRİPLERİNİN GELİŞTİRİLMESİ, 2016 - 2018
- VURAL T., Project Supported by Higher Education Institutions, Kitosan-altın nanopartikül modifiyeli titanyum oksit nanotüp elektrotların üretimi, 2017 - 2017
- VURAL T., ABACI S., YAMAN Y. T. , AKBAL Ö., Project Supported by Higher Education Institutions, Modifiye Grafit Elektrotlar Kullanılarak Doksorubisinin Elektrokimyasal Tayini, 2016 - 2017
- BAYRAM C., VURAL T., Project Supported by Higher Education Institutions, Kontrol Edilebilir Poröziteye Sahip Titanyum Metal Yüzeylerden Biyolojik Molekül Salım Kinetiğinin İncelenmesi, 2015 - 2016
- VURAL T., Project Supported by Higher Education Institutions, PANI-PNT MODİFİYELİ KALEM GRAFİT ELEKTROT KULLANILARAK VOLTAMETRE İLE ANTİMON'UN SAPTANMASI, 2015 - 2015

Citations

Total Citations (WOS):289

h-index (WOS):9

Entrepreneurship Activities

Limited, Triton İnovatif Teknolojiler Müh. San. ve Tic. Ltd. Şti., 31 August 2018, Co-Founder