

# Prof. MUSTAFA KEMAL SEZGİNTÜRK

## Personal Information

**Office Phone:** [+90 286 218 0000](tel:+902862180000) Extension: 1436

**Email:** [msezginturk@comu.edu.tr](mailto:msezginturk@comu.edu.tr)

**Web:** <https://avesis.comu.edu.tr/mutafakemal>

## Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 2002 - 2007

Post Graduate, Ege University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 1998 - 2002

Under Graduate, Ege University, Fen Fakültesi, Kimya, Turkey 1994 - 1998

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate,  $\beta$ -Galaktozidaz Aktivitesinin Belirlenmesinde Biyosensör Temelli Ölçüm Sistemlerinin Geliştirilmesi , Ege University, Fen Bilimleri Enstitüsü, Biyokimya, 2007

Post Graduate, Glutasyon Tayini için Biyosensör Geliştirilmesi, Ege University, Fen Bilimleri Enstitüsü, Biyokimya, 2002

## Research Areas

Chemistry, Biochemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik , 2017 - Continues

Professor, Namık Kemal Üniversitesi, Fen Edebiyat Fakültesi , Kimya, 2014 - 2017

Associate Professor, Namık Kemal Üniversitesi, Fen Edebiyat Fakültesi , Kimya, 2008 - 2014

Assistant Professor, Namık Kemal Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2008 - 2008

Research Assistant, Ege University, Fen Fakültesi, Biyokimya, 2000 - 2007

## Professional Experience

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik, 2017 - Continues

Dean, Namık Kemal Üniversitesi, Fen Edebiyat Fakültesi, 2015 - 2017

BAP Scientific Commissioner, Namık Kemal Üniversitesi, 2015 - 2017

Head of Department, Namık Kemal Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2014 - 2017

Deputy Director of the Center, Namık Kemal Üniversitesi, Nabiltem, 2012 - 2015

Head of Department, Namık Kemal Üniversitesi, 2010 - 2012

## Advising Theses

- SEZGİNTÜRK M. K. , ITO TEMELLİ TEK KULLANIMLIK MALZEMELERİN BİYOSENSÖR TEKNOLOJİLERİNİN GELİŞTİRİLMESİNDE KULLANIMI VE KANSER ERKEN TEŞHİSİNE YÖNELİK OLARAK UYGULANMASI, Post Graduate, M.Akgün(Student), 2019
- SEZGİNTÜRK M. K. , Yeni silanlama ajanı ve biyosensörlerde kullanımının incelenmesi, Post Graduate, N.Tarımeri(Student), 2019
- SEZGİNTÜRK M. K. , Çocukluk Çağı Obezitesinin Erken Dönemde Belirlenebilmesi İçin Tek Kullanımlık Biyosensör Sistemlerinin Geliştirilmesi, Doctorate, B.Özcan(Student), 2018
- SEZGİNTÜRK M. K. , Tükürükteki Belirli Biyomarkerların Tek Kullanımlık Biyosensör Sistemleri İle Tayini ve Kanser Erken Teşhisinde Kullanımlarının Araştırılması, Doctorate, E.Burcu(Student), 2018
- SEZGİNTÜRK M. K. , "Bazı Kardiyovasküler Hastalıkların Biyosensör Sistemleri ile Belirlenmesi ve Gerçek Örneklerde Kullanım Potansiyellerinin Araştırılması, Doctorate, B.Demirbakan(Student), 2018
- SEZGİNTÜRK M. K. , Nörodejeneratif hastalıkların erken tanısına yönelik nöro-biyosensör sistemlerinin geliştirilmesi ve klinik uygulamalarının araştırılması, Doctorate, M.Nur(Student), 2018
- SEZGİNTÜRK M. K. , Otoantikör protein kinaz -2 (PAK-2)'nin analizi için tek kullanımlık biyoalgılama sistemlerinin geliştirilmesi ve gerçek örneklerle uygulanması, Post Graduate, N.Kılınç(Student), 2016
- SEZGİNTÜRK M. K. , ITO temelli tek kullanımlık immunosensör geliştirilmesi ve kanser biyomarker analizinde kullanılması, Post Graduate, H.Törer(Student), 2016
- SEZGİNTÜRK M. K. , Melanoma antijen-1'in hassas ve ekonomik tayini için elektrokimyasal bir biyosensör, Post Graduate, A.Gündoğdu(Student), 2015
- SEZGİNTÜRK M. K. , Bazı hastalıkların erken teşhisi için yeni biyoalgılama sistemlerinin geliştirilmesi, Post Graduate, B.Özcan(Student), 2015
- SEZGİNTÜRK M. K. , HSP70'in hassas ve ekonomik analizi için fulleren C60 temelli bir biyosensör, Post Graduate, B.Demirbakan(Student), 2015
- SEZGİNTÜRK M. K. , Biyosensörlere farklı bir bakış açısı : enzim aktivitesi tayinlerine yönelik sistemler, Post Graduate, B.İşık(Student), 2014
- SEZGİNTÜRK M. K. , Enzim aktivitesinin tayinine yönelik Elektrokimyasal İmpedans Spektroskopisi temelli biyosensör geliştirilmesi, Post Graduate, Ş.Gülden(Student), 2014
- SEZGİNTÜRK M. K. , Bazı kanser biyomarkerlarının tayinine yönelik biyosensör sistemleri geliştirilmesi, Doctorate, E.Asav(Student), 2014
- SEZGİNTÜRK M. K. , Kanser Biyomarkerlarının Erken Teşhis Amacıyla Tayini ve Biyosensör Sistemleri, Yüksek Lisans Tezi, Post Graduate, M.Çetin(Student), 2013
- SEZGİNTÜRK M. K. , Biyosensör sistemlerinin kanser biyomarkerlarının tayininde kullanımlarının araştırılması, Post Graduate, Ç.Sayıklı(Student), 2012

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

- I. **A high sensitive and cost-effective disposable biosensor for adiponectin determination in real human serum samples**  
Ince B., SEZGİNTÜRK M. K.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.328, 2021 (Journal Indexed in SCI)
- II. **A novel electrochemical immunosensor based on acetylene black/epoxy-substituted-polypyrrole polymer composite for the highly sensitive and selective detection of interleukin 6**  
AYDIN E. B. , Aydın M., SEZGİNTÜRK M. K.  
TALANTA, vol.222, 2021 (Journal Indexed in SCI)
- III. **Fabrication of electrochemical immunosensor based on acid-substituted poly(pyrrole) polymer**

**modified disposable ITO electrode for sensitive detection of CCR4 cancer biomarker in human serum**

AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.

TALANTA, vol.222, 2021 (Journal Indexed in SCI)

- IV. **Construction of succinimide group substituted polythiophene polymer functionalized sensing platform for ultrasensitive detection of KLK 4 cancer biomarker**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.325, 2020 (Journal Indexed in SCI)
- V. **Analysis of Tau-441 protein in clinical samples using rGO/AuNP nanocomposite-supported disposable impedimetric neuro-biosensing platform: Towards Alzheimer's disease detection**  
KARABOĞA M. N. S. , SEZGİNTÜRK M. K.  
TALANTA, vol.219, 2020 (Journal Indexed in SCI)
- VI. **A label-free immunosensor for sensitive detection of RACK 1 cancer biomarker based on conjugated polymer modified ITO electrode**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.190, 2020 (Journal Indexed in SCI)
- VII. **Electrochemical Immunosensor for Detection of CCR4 Cancer Biomarker in Human Serum: An Alternative Strategy for Modification of Disposable ITO Electrode**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
MACROMOLECULAR BIOSCIENCE, 2020 (Journal Indexed in SCI)
- VIII. **The development of an ultra-sensitive electrochemical immunosensor using a PPyr-NHS functionalized disposable ITO sheet for the detection of interleukin 6 in real human serums**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
NEW JOURNAL OF CHEMISTRY, vol.44, is.33, pp.14228-14238, 2020 (Journal Indexed in SCI)
- IX. **Pd nanoreactors with excellent catalytic activity supported in p(SPA) hydrogel networks for hydrogen production from ethylenediamine bisborane**  
ÖZAY H., ILGIN P., SEZGİNTÜRK M. K. , ÖZAY Ö.  
RENEWABLE ENERGY, vol.155, pp.500-512, 2020 (Journal Indexed in SCI)
- X. **A New Approach to Synthesis of Highly Dispersed Gold Nanoparticles via Glucose Oxidase-Immobilized Hydrogel and Usage in The Reduction of 4-Nitrophenol**  
ÖZAY H., Tarimeri N., Güngör Z., DEMİRBAKAN B., ÖZCAN B., SEZGİNTÜRK M. K. , ÖZAY Ö.  
CHEMISTRYSELECT, vol.5, is.29, pp.9143-9152, 2020 (Journal Indexed in SCI)
- XI. **A novel ultrasensitive immunosensor based on disposable graphite paper electrodes for troponin T detection in cardiovascular disease**  
DEMİRBAKAN B., SEZGİNTÜRK M. K.  
TALANTA, vol.213, 2020 (Journal Indexed in SCI)
- XII. **A High Sensitive, Reproducible and Disposable Immunosensor for Analysis of SOX2**  
Tarimeri N., SEZGİNTÜRK M. K.  
ELECTROANALYSIS, vol.32, is.5, pp.1065-1074, 2020 (Journal Indexed in SCI)
- XIII. **Biosensors and the evaluation of food contaminant biosensors in terms of their performance criteria**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.100, is.5, pp.602-622, 2020 (Journal Indexed in SCI)
- XIV. **Ultra-sensitive detection of parathyroid hormone in human serum: a cheap and practical biosensing platform modified by an epoxy ended-silane agent**  
ÖZCAN B., Hanbaba M. A. , SEZGİNTÜRK M. K.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.100, is.4, pp.393-407, 2020 (Journal Indexed in SCI)
- XV. **Ruthenium nanoparticles supported in the network of HES-p(AMPS) IPN hydrogel as efficient catalyst for hydrogen production from the hydrolysis of ethylenediamine bisborane**  
ÖZAY H., ILGIN P., SEZGİNTÜRK M. K. , ÖZAY Ö.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, is.16, pp.9892-9902, 2020 (Journal Indexed in SCI)
- XVI. **Preface for the special issue of 4th International congress on biosensors**  
SEZGİNTÜRK M. K.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.100, is.4, pp.361-362, 2020  
(Journal Indexed in SCI)
- XVII. **Selective and ultrasensitive electrochemical immunosensing of NSE cancer biomarker in human serum using epoxy-substituted poly(pyrrole) polymer modified disposable ITO electrode**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.306, 2020 (Journal Indexed in SCI)
- XVIII. **Development of a biosensor platform based on ITO sheets modified with 3-glycidoxypropyltrimethoxysilane for early detection of TRAP1**  
Vural B., Caliskan M., SEZGİNTÜRK M. K.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, is.2, pp.461-471, 2020 (Journal Indexed in SCI)
- XIX. **A comparison between LP(GMA) and CLP(GMA) polymer composites as an immobilization matrix for biosensing applications: A model immunosensor for IL 1 alpha**  
AYDIN E. B. , SEZGİNTÜRK M. K.  
ANALYTICA CHIMICA ACTA, vol.1077, pp.129-139, 2019 (Journal Indexed in SCI)
- XX. **A novel electrochemical immunosensor based on disposable ITO-PET electrodes for sensitive detection of PAK 2 antigen**  
DEMİRBAKAN B., SEZGİNTÜRK M. K.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.848, 2019 (Journal Indexed in SCI)
- XXI. **A Highly Selective Poly(thiophene)-graft-Poly(methacrylamide) Polymer Modified ITO Electrode for Neuron Specific Enolase Detection in Human Serum**  
Aydin M., AYDIN E. B. , SEZGİNTÜRK M. K.  
MACROMOLECULAR BIOSCIENCE, vol.19, is.8, 2019 (Journal Indexed in SCI)
- XXII. **Ultrasensitive determination of cadherin-like protein 22 with a label-free electrochemical immunosensor using brush type poly(thiophene-g-glycidylmethacrylate) modified disposable ITO electrode**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
TALANTA, vol.200, pp.387-397, 2019 (Journal Indexed in SCI)
- XXIII. **An epoxysilane modified indium tin oxide electrode for the determination of PAK 2: Application in human serum samples**  
Yilmaz N., AYDIN E. B. , SEZGİNTÜRK M. K.  
ANALYTICA CHIMICA ACTA, vol.1062, pp.68-77, 2019 (Journal Indexed in SCI)
- XXIV. **Highly sensitive and cost-effective ITO-based immunosensor system modified by 11-CUTMS: Analysis of SOX2 protein in real human serum**  
ÖZCAN B., SEZGİNTÜRK M. K.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.130, pp.245-252, 2019 (Journal Indexed in SCI)
- XXV. **Electrochemical immunosensor for CDH22 biomarker based on benzaldehyde substituted poly(phosphazene) modified disposable ITO electrode: A new fabrication strategy for biosensors**  
Aydin M., AYDIN E. B. , SEZGİNTÜRK M. K.  
BIOSENSORS & BIOELECTRONICS, vol.126, pp.230-239, 2019 (Journal Indexed in SCI)
- XXVI. **Advances in electrochemical immunosensors**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
ADVANCES IN CLINICAL CHEMISTRY, VOL 92, vol.92, pp.1-57, 2019 (Journal Indexed in SCI)
- XXVII. **Immobilization Techniques of Nanomaterials**  
AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.47-78, 2019 (Journal Indexed in SCI)
- XXVIII. **An ultrasensitive electrochemical immunosensor platform based on disposable ITO electrode**

- modified by 3-CPTMS for early detection of parathyroid hormone**  
ULUDAĞ İ., SEZGİNTÜRK M. K.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, is.6, pp.1697-1710, 2019 (Journal Indexed in SCI)
- XXIX. **Cerebrospinal fluid levels of alpha-synuclein measured using a poly-glutamic acid-modified gold nanoparticle-doped disposable neuro-biosensor system**  
KARABOĞA M. N. S. , SEZGİNTÜRK M. K.  
ANALYST, vol.144, is.2, pp.611-621, 2019 (Journal Indexed in SCI)
- XXX. **Biosensors in Drug Discovery and Drug Analysis**  
AYDIN E. B. , Aydın M., SEZGİNTÜRK M. K.  
CURRENT ANALYTICAL CHEMISTRY, vol.15, is.4, pp.467-484, 2019 (Journal Indexed in SCI)
- XXXI. **A disposable and ultrasensitive ITO based biosensor modified by 6-phosphonohexanoic acid for electrochemical sensing of IL-1 beta in human serum and saliva**  
AYDIN E. B. , SEZGİNTÜRK M. K.  
ANALYTICA CHIMICA ACTA, vol.1039, pp.41-50, 2018 (Journal Indexed in SCI)
- XXXII. **Electrochemical immunosensor based on chitosan/conductive carbon black composite modified disposable ITO electrode: An analytical platform for p53 detection**  
AYDIN E. B. , Aydın M., SEZGİNTÜRK M. K.  
BIOSENSORS & BIOELECTRONICS, vol.121, pp.80-89, 2018 (Journal Indexed in SCI)
- XXXIII. **A highly selective electrochemical immunosensor based on conductive carbon black and star PGMA polymer composite material for IL-8 biomarker detection in human serum and saliva**  
Aydın M., AYDIN E. B. , SEZGİNTÜRK M. K.  
BIOSENSORS & BIOELECTRONICS, vol.117, pp.720-728, 2018 (Journal Indexed in SCI)
- XXXIV. **Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 beta in human serum and saliva**  
AYDIN E. B. , Aydın M., SEZGİNTÜRK M. K.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.270, pp.18-27, 2018 (Journal Indexed in SCI)
- XXXV. **A label-free electrochemical biosensor for direct detection of RACK 1 by using disposable, low-cost and reproducible ITO based electrode**  
Torer H., AYDIN E. B. , SEZGİNTÜRK M. K.  
ANALYTICA CHIMICA ACTA, vol.1024, pp.65-72, 2018 (Journal Indexed in SCI)
- XXXVI. **Determination of C-reactive protein by PAMAM decorated ITO based disposable biosensing system: A new immunosensor design from an old molecule**  
KARABOĞA M. N. S. , SEZGİNTÜRK M. K.  
TALANTA, vol.186, pp.162-168, 2018 (Journal Indexed in SCI)
- XXXVII. **An impedimetric immunosensor for highly sensitive detection of IL-8 in human serum and saliva samples: A new surface modification method by 6-phosphonohexanoic acid for biosensing applications**  
AYDIN E. B. , SEZGİNTÜRK M. K.  
ANALYTICAL BIOCHEMISTRY, vol.554, pp.44-52, 2018 (Journal Indexed in SCI)
- XXXVIII. **A disposable immunosensor using ITO based electrode modified by a star-shaped polymer for analysis of tumor suppressor protein p53 in human serum**  
Aydın M., AYDIN E. B. , SEZGİNTÜRK M. K.  
BIOSENSORS & BIOELECTRONICS, vol.107, pp.1-9, 2018 (Journal Indexed in SCI)
- XXXIX. **A novel silanization agent based single used biosensing system: Detection of C-reactive protein as a potential Alzheimer's disease blood biomarker**  
KARABOĞA M. N. S. , SEZGİNTÜRK M. K.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.154, pp.227-235, 2018 (Journal Indexed in SCI)
- XL. **Indium tin oxide (ITO): A promising material in biosensing technology**  
AYDIN E. B. , SEZGİNTÜRK M. K.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.97, pp.309-315, 2017 (Journal Indexed in SCI)

- XLI. A highly sensitive immunosensor based on ITO thin films covered by a new semi-conductive conjugated polymer for the determination of TNF alpha in human saliva and serum samples**  
 AYDIN E. B. , Aydin M., SEZGİNTÜRK M. K.  
 BIOSENSORS & BIOELECTRONICS, vol.97, pp.169-176, 2017 (Journal Indexed in SCI)
- XLII. A novel electrochemical immunosensor based on ITO modified by carboxyl-ended silane agent for ultrasensitive detection of MAGE-1 in human serum**  
 Gundogdu A., AYDIN E. B. , SEZGİNTÜRK M. K.  
 ANALYTICAL BIOCHEMISTRY, vol.537, pp.84-92, 2017 (Journal Indexed in SCI)
- XLIII. Quantification of Trypsin Activity by a New Biosensing System Based on the Enzymatic Degradation and the Destructive Nature of Trypsin**  
 Isik B., Sezginturk M. K.  
 INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.23, is.3, pp.313-322, 2017 (Journal Indexed in SCI)
- XLIV. A sensitive and disposable electrochemical immunosensor for detection of SOX2, a biomarker of cancer**  
 AYDIN E. B. , SEZGİNTÜRK M. K.  
 TALANTA, vol.172, pp.162-170, 2017 (Journal Indexed in SCI)
- XLV. A sensitive and disposable indium tin oxide based electrochemical immunosensor for label-free detection of MAGE-1**  
 Demirbakan B., SEZGİNTÜRK M. K.  
 TALANTA, vol.169, pp.163-169, 2017 (Journal Indexed in SCI)
- XLVI. A novel label free immunosensor based on single-use ITO-PET electrodes for detection MAGE1 protein**  
 Ozcan B., SEZGİNTÜRK M. K.  
 JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.792, pp.31-38, 2017 (Journal Indexed in SCI)
- XLVII. Graphene oxide based electrochemical label free immunosensor for rapid and highly sensitive determination of tumor marker HSP70**  
 Ozcan B., Sezginturk M. K.  
 TALANTA, vol.160, pp.367-374, 2016 (Journal Indexed in SCI)
- XLVIII. AuNPs modified, disposable, ITO based biosensor: Early diagnosis of heat shock protein 70**  
 Karaboga M. N. S. , Simsek C. S. , Sezginturk M. K.  
 BIOSENSORS & BIOELECTRONICS, vol.84, pp.22-29, 2016 (Journal Indexed in SCI)
- XLIX. Lateral flow assays: Principles, designs and labels**  
 Bahadir E. B. , Sezginturk M. K.  
 TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.82, pp.286-306, 2016 (Journal Indexed in SCI)
- L. Quantitative Analysis of a Promising Cancer Biomarker, Calretinin, by a Biosensing System Based on Simple and Effective Immobilization Process**  
 Asav E., Sağıroğlu A., Sezginturk M. K.  
 ELECTROANALYSIS, vol.28, is.2, pp.334-342, 2016 (Journal Indexed in SCI)
- LI. Poly(amidoamine) (PAMAM): An emerging material for electrochemical bio(sensing) applications**  
 Bahadir E. B. , Sezginturk M. K.  
 Talanta, vol.148, pp.427-438, 2016 (Journal Indexed in SCI)
- LII. A Disposable, Highly Sensitive Biosensing System: Determination of Haptoglobin as a Significant Acute Phase Biomarker**  
 Sonuc M. N. , Sezginturk M. K.  
 CURRENT ANALYTICAL CHEMISTRY, vol.12, is.1, pp.43-53, 2016 (Journal Indexed in SCI)
- LIII. Label-free, ITO-based immunosensor for the detection of a cancer biomarker: Receptor for Activated C Kinase 1**  
 Bahadir E. B. , Sezginturk M. K.  
 ANALYST, vol.141, is.19, pp.5618-5626, 2016 (Journal Indexed in SCI)
- LIV. A new methodology for the determination of enzyme activity based on carbon nanotubes and**

**glucose oxidase**

Yesiller G., Sezginurk M. K.

JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.115, pp.254-259, 2015 (Journal Indexed in SCI)

- LIV. **Ultrasensitive Impedimetric Biosensor Fabricated by a New Immobilisation Technique for Parathyroid Hormone**  
Ozcan H. M. , Yildiz K., Cakar C., Aydin T., Asav E., Sagiroglu A., Sezginurk M. K.  
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.176, is.5, pp.1251-1262, 2015 (Journal Indexed in SCI)
- LVI. **Electrochemical biosensors for hormone analyses**  
Bahadir E. B. , Sezginurk M. K.  
BIOSENSORS & BIOELECTRONICS, vol.68, pp.62-71, 2015 (Journal Indexed in SCI)
- LVII. **Applications of commercial biosensors in clinical, food, environmental, and biothreat/biowarfare analyses**  
Bahadir E. B. , Sezginurk M. K.  
ANALYTICAL BIOCHEMISTRY, vol.478, pp.107-120, 2015 (Journal Indexed in SCI)
- LVIII. **Detection of Parathyroid Hormone Using an Electrochemical Impedance Biosensor Based on PAMAM Dendrimers**  
Ozcan H. M. , Sezginurk M. K.  
BIOTECHNOLOGY PROGRESS, vol.31, is.3, pp.815-822, 2015 (Journal Indexed in SCI)
- LIX. **Applications of electrochemical immunosensors for early clinical diagnostics**  
Bahadir E. B. , Sezginurk M. K.  
TALANTA, vol.132, pp.162-174, 2015 (Journal Indexed in SCI)
- LX. **Introducing a new method for evaluation of the interaction between an antigen and an antibody: Single frequency impedance analysis for biosensing systems**  
Ozcan B., Demirbakan B., Yesiller G., Sezginurk M. K.  
TALANTA, vol.125, pp.7-13, 2014 (Journal Indexed in SCI)
- LXI. **A Novel Biosensing System Using Biological Receptor for Analysis of Vascular Endothelial Growth Factor**  
Teke M., Sayikli C., Canbaz C., Sezginurk M. K.  
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.20, is.2, pp.221-230, 2014 (Journal Indexed in SCI)
- LXII. **A novel impedimetric disposable immunosensor for rapid detection of a potential cancer biomarker**  
Asav E., Sezginurk M. K.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.66, pp.273-280, 2014 (Journal Indexed in SCI)
- LXIII. **Electrochemical biosensor based on self-assembled monolayers modified with gold nanoparticles for detection of HER-3**  
Canbaz M. C. , Simsek C. S. , Sezginurk M. K.  
ANALYTICA CHIMICA ACTA, vol.814, pp.31-38, 2014 (Journal Indexed in SCI)
- LXIV. **Ultrasensitive electrochemical detection of cancer associated biomarker HER3 based on anti-HER3 biosensor**  
Sonuc M. N. , Sezginurk M. K.  
TALANTA, vol.120, pp.355-361, 2014 (Journal Indexed in SCI)
- LXV. **Fabrication of a highly sensitive disposable immunosensor based on indium tin oxide substrates for cancer biomarker detection**  
Canbaz M. C. , Sezginurk M. K.  
ANALYTICAL BIOCHEMISTRY, vol.446, pp.9-18, 2014 (Journal Indexed in SCI)
- LXVI. **A hybrid enzyme biosensor based on sulfite oxidase and glucose oxidase for the analyzing of sulfite and glucose**  
Sezginurk M. K. , Alaçam S., ALTUĞ Ç., Akbayirli P., DİNÇKAYA E.  
Analytical and Bioanalytical Electrochemistry, vol.4, is.2, pp.153-162, 2012 (Journal Indexed in SCI Expanded)
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