

Prof. HAYRETTİN TÜMTÜRK

Personal Information

Email: tumturk@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/tumturk>

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1991 - 1998

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1985 - 1991

Under Graduate, Gazi University, Gazi Eğitim Fakültesi, Fen Bilimleri Bölümü, Turkey 1981 - 1985

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, a-Amilazin polimerik mikroküreler üzerinde kovalent bağlanma ile immobilizasyonu, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1998

Post Graduate, Propilen oksitin stereospesifik polimerleşmesinin katı maddeleri ile denetlenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1988

Research Areas

Chemistry, Physical Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 2012 - Continues

Assistant Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 2000 - Continues

Research Assistant, Gazi University, Fen Fakültesi, Kimya Bölümü, 1987 - 2000

Professional Experience

Vice Dean, Gazi University, Fen Fakültesi, 2016 - Continues

Deputy Head of Department, Gazi University, Fen Fakültesi, 2014 - Continues

Deputy Head of Department, Gazi University, Fen Fakültesi, Kimya Bölümü, 2009 - 2012

Deputy Head of Department, Gazi University, Fen Fakültesi, Kimya Bölümü, 2005 - 2008

Courses

GENEL KİMYA-II, Under Graduate, 2017 - 2018
KİM-171- BİYOLOJİ ÖĞRENCİLERİ İÇİN KİMYA, Under Graduate, 2017 - 2018
GENEL KİMYA-I, Under Graduate, 2017 - 2018
KİM101 KİMYA-1, Under Graduate, 2017 - 2018
GENEL KİMYA LABORATUVARI, Under Graduate, 2017 - 2018
KİM258 FİZİKOKİMYAYA GİRİŞ, Under Graduate, 2016 - 2017
KİM434 KİMYASAL KİNİTİK VE TEPKİME MEKANİZMALARI, Under Graduate, 2016 - 2017
KİM103 KİMYA, Under Graduate, 2016 - 2017

Advising Theses

TÜMTÜRK H., Antikor baskılanmış manyetik nanotaneçiklerin hazırlanması ve kullanılabilirliği, Post Graduate, S.GÜRLEYİK(Student), 2020
TÜMTÜRK H., Tannik asit modifiyeli manyetik nanotaneçikler üzerine γ -glutamil transpeptidazın kovalent immobilizasyonu, Post Graduate, J.DAANA(Student), 2018
TÜMTÜRK H., Synthesis And Characterization Of Biomimetic Nanofilms, Post Graduate, O.ARIPZHANOVA(Student), 2018
TÜMTÜRK H., Covalent Immobilization Of γ -Glutamyl Transpeptidase On Tannic Acid Modified Magnetic Nanoparticles, J.Daana(Student), 2018
TÜMTÜRK H., Enzyme immobilization onto magnetic nanoparticles prepared via biomimetic coating, Post Graduate, H.YÜKSEKDAĞ(Student), 2014
TÜMTÜRK H., Functional ended of poly (glycidyl methacrylate) spheres immobilization of glucose oxidase microspheres, Post Graduate, A.AKDAĞ(Student), 2012
TÜMTÜRK H., Development of immunosensor platforms based on magnetic nanostructured, Doctorate, F.ŞAHİN(Student), 2012
TÜMTÜRK H., Application of polymer-modified silica nanoparticles in enzyme immobilization, Post Graduate, A.MALKOÇ(Student), 2011
TÜMTÜRK H., Aminoasit içeren polimerik Schiff bazı ve Ni(II) kompleksinin sentezi, karakterizasyonu ve immobilizasyonu, Post Graduate, V.ERDURAN(Student), 2010
TÜMTÜRK H., SYNTHESIS, CHARACTERIZATION OF POLYMERIC-SCHIFF BASE INCLUDING AMINOACID AND IT'S Ni(II) COMPLEXES AND IMMOBILIZATION, V.ERDURAN(Student), 2010
TÜMTÜRK H., INVESTIGATION OF ELECTORRHEOLOGICAL PROPERTIES OF POLYINDOLE/POLYETHYLENE COMPOSITE, M.MAKULOĞULLARI(Student), 2009
TÜMTÜRK H., Poliindol/polietilen kompozitin elektroeolojik özelliklerinin incelenmesi, Post Graduate, M.MAKULOĞULLARI(Student), 2009
TÜMTÜRK H., Poli(vinil alkol)-kalsiyum aljinat, poli(n-izopropilakrilamit)-kalsiyum aljinat kürelerine β -galaktosidaz immobilizasyonu, Post Graduate, B.LÜTFİYE(Student), 2007
TÜMTÜRK H., IMMOBILIZATION OF β -GALACTOSIDASE IN POLY(VINYL ALCOHOL)- CALCIUM ALGINATE, POLY(N-ISOPROPYLACRYLAMIDE) - CALCIUM ALGINATE, B.Lütfiye(Student), 2007
TÜMTÜRK H., Poli (Metilmetakrilat-ko-Glisidilmetakrilat) hidrojeli kullanılarak beta-galaktosidazın kovalent bağlanma yöntemiyle immobilizasyonu, Post Graduate, G.TUNÇ(Student), 2006
TÜMTÜRK H., Poli (N,N-dimetilakrilamit-ko-akrilamit) ve poli (N-izopropilakrilamit-ko-akrilamit)/k-karragenan polimerleri kullanılarak lipaz enziminin immobilizasyonu, Post Graduate, N.KARACA(Student), 2006
TÜMTÜRK H., Poli (akrilamit-ko-akrilik asit) polietilenimin ve poli (metil metakrilat-koglisidil metakrilat) kullanılarak kolesterol oksidaz enziminin immobilizasyonu, Post Graduate, B.AKKAYA(Student), 2006
TÜMTÜRK H., Üreazın aljinat/kitosan polielektrolit ve poli (akrilamit-ko-akrilik asit)/k-karragenan interpolimer komplekslerine immobilizasyonu, Post Graduate, F.KARA(Student), 2006
TÜMTÜRK H., Aljinat jel boncukları ve poli (akrilamit -ko-akrilik asit) hidrojellerle tirozinaz enziminin binari yöntemiyle immobilizasyonu, Post Graduate, A.YAŞI(Student), 2005
TÜMTÜRK H., Asetilkolinesterazın doğal polimerler kullanılarak immobilizasyonu, Post Graduate, F.ŞAHİN(Student), 2005

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

- I. **A fluoroimmundiagnostic nanoplatform for thyroglobulin detection based on fluorescence quenching signal**
Turan E., Sahin F., Suludere Z., TÜMTÜRK H.
SENSORS AND ACTUATORS B-CHEMICAL, vol.300, 2019 (Journal Indexed in SCI)
- II. **Acetylcholinesterase immobilized onto PEI-coated silica nanoparticles**
Tümtürk H., Yüksekdağ H.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, pp.443-447, 2016 (Journal Indexed in SCI)
- III. **Research on the Repeated Use of Novel Ferrocene-Tagged Nanomaterial for Determination of Glucose**
Kurnaz Yetim N., Hasanoğlu Özkan E., Daniş B., Tümtürk H., Sarı N.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.64, pp.888-893, 2015 (Journal Indexed in SCI)
- IV. **Immobilization of glucose oxidase attached to new nanospheres including azomethine**
Özdem N., Hasanoğlu Özkan E., Sarı N., Arslan F., Tümtürk H.
MACROMOLECULAR RESEARCH, vol.22, pp.1282-1287, 2014 (Journal Indexed in SCI)
- V. **Magnetic nanoparticles coated with different shells for biorecognition: high specific binding capacity**
TÜMTÜRK H., Sahin F., Turan E.
ANALYST, vol.139, no.5, pp.1093-1100, 2014 (Journal Indexed in SCI)
- VI. **Immobilization of -galactosidase on Polystyrene Microspheres Attached L-Alanine**
Erduran V., TÜMTÜRK H., Aynaci E., SARI N.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.50, no.8, pp.871-878, 2013 (Journal Indexed in SCI)
- VII. **Core-shell magnetic nanoparticles: a comparative study based on silica and polydopamine coating for magnetic bio-separation platforms**
Sahin F., Turan E., TÜMTÜRK H., DEMİREL G.
ANALYST, vol.137, no.23, pp.5654-5658, 2012 (Journal Indexed in SCI)
- VIII. **Immobilization of beta-galactosidase on Novel Polymers Having Schiff Bases**
Aynaci E., SARI N., TÜMTÜRK H.
ARTIFICIAL CELLS BLOOD SUBSTITUTES AND BIOTECHNOLOGY, vol.39, no.4, pp.259-266, 2011 (Journal Indexed in SCI)
- IX. **Functional polymeric supports for immobilization of cholesterol oxidase**
Akkaya B., Sahin F., DEMİREL G., TÜMTÜRK H.
BIOCHEMICAL ENGINEERING JOURNAL, vol.43, no.3, pp.333-337, 2009 (Journal Indexed in SCI)
- X. **Covalent immobilization of invertase on chemically activated poly (styrene-2-hydroxyethyl methacrylate) microbeads**
ALTINOK H., Aksoy S., TÜMTÜRK H., HASIRCI N.
JOURNAL OF FOOD BIOCHEMISTRY, vol.32, no.3, pp.299-315, 2008 (Journal Indexed in SCI)
- XI. **Immobilization of glucose isomerase in surface-modified alginate gel beads**
TÜMTÜRK H., DEMİREL G., ALTINOK H., Aksoy S., HASIRCI N.
JOURNAL OF FOOD BIOCHEMISTRY, vol.32, no.2, pp.234-246, 2008 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Gazlar**
TÜMTÜRK H., MENZEK A., TUNÇELİ A., AKTAN E., SEVİN DÜZ F., ÜNAL H. İ. , YEKELER H., KIRAN İ., AKSU M. L. , PULAT M., et al.
in: Genel Kimya Öğrenciler İçin Problem Çözümleri, Recai İnam, Serpil Aksoy, Editor, Palme Yayıncılık, Ankara, pp.109-149, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Covalent Immobilization of gama-Glutamyl Transpeptidase on Tannic Acid Modified Magnetic Nanoparticles**
jehaad d., turan e., TÜMTÜRK H.
12 th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018
- II. **Covalent Immobilization of g-Glutamyl Transpeptidase On Tannic Acid Modified Magnetic Nanoparticles**
DAANA J., TURAN E., TÜMTÜRK H.
ISOPS-12 International Symposium on Pharmaceutical Sciences, ANKARA (26-29 June 2018), 26 - 29 June 2018, pp.78
- III. **Antibody imprinted magnetic nanoparticles**
GÜRLEYİK S., TURAN E., ALTINOK H., TÜMTÜRK H.
I. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017
- IV. **Biomimetic Nanofilms**
ARİPCANOVA O., TURAN E., TÜMTÜRK H.
1. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, 7 - 10 December 2017
- V. **Specific Bioaffinity of Hashimoto's Thyroiditis Antibodies Conjugated Ferritin Nanocages**
TÜMTÜRK H., TURAN E., ŞAHİN F.
22nd International Biomedical Science and Technology Symposium BIOMED2017, 12 - 14 May 2017
- VI. **Specific Bioaffinity of Hashimoto'xxs Thyroiditis Antibodies Conjugated Ferritin Nanocages**
TURAN E., TÜMTÜRK H., ŞAHİN F.
22nd International Biomedical Science and Technology Symposium, 12 - 14 May 2017
- VII. **Determination of Optimum Conditions of Immobilized Acetylcholinesterase**
KURNAZ YETİM N., Hasanoğlu Özkan E., TÜMTÜRK H., SARI N.
International conference on Chemical and Biochemical Engineering, 20 - 22 July 2015
- VIII. **Immobilization of β -galaktosidaze enzyme with (4-formyl-3-methoxyphenoxymethyl)polystyrene using the method of covalent bounded,**
TÜMTÜRK H., SARI N., Erduran V.
International Symposium on Drug Research Development From Chemistry to Medicine Educational Fair on GLP and Laboratory Safety: New Approaches, 4 - 07 May 2009
- IX. **Immobilization of β -galaktosidaze enzyme with (aminomethyl)polystyrene using the method of covalent bounded**
Aynacı E., TÜMTÜRK H., SARI N.
International Symposium on Drug Research Development "From Chemistry to Medicine Educational Fair on GLP and Laboratory Safety: New Approaches, 4 - 07 May 2009

Supported Projects

- TÜMTÜRK H., Project Supported by Higher Education Institutions, Aldehit grubu ile sonlandırılmış Polistirenden Schiff bazları ve Ni(II) komplekslerinin sentezi, karakterizasyonu ve immobilizasyon özelliklerinin araştırılması, 2009 - Continues
- TÜMTÜRK H., Project Supported by Higher Education Institutions, Kimya Eğitiminde Uygulama Yöntemlerinin Sağlanması, 2006 - Continues
- TÜMTÜRK H., Project Supported by Higher Education Institutions, Ca-Alginat Jel Kürelerinin Hazırlanışı ve Çeşitli Enzimlerin İmmobilizasyonunda Kullanılması, 2005 - Continues
- TÜMTÜRK H., Project Supported by Higher Education Institutions, Poli (2-Hidroksietil Metakrilat-Maleik Asit) Hidrojeli Üzerinde Glikosamerazın İmmobilizasyonu, 2002 - Continues
- TÜMTÜRK H., Project Supported by Higher Education Institutions, Manyetik Nanoyapılı İmmunosensör Platformlarının Hazırlanması, 2010 - 2012

TÜMTÜRK H., Project Supported by Higher Education Institutions, Polimer Modifiye Silika Nanopartiküllerin Enzim İmmobilizasyonunda Kullanımı, 2010 - 2011

Citations

Total Citations (WOS):123

h-index (WOS):8