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Education Information

Doctorate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya/Biyokimya, Turkey 2010 - 2015

Post Graduate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya/Biyokimya, Turkey 2007 - 2010

Under Graduate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, BİYOLOJİK SIVILARDA KLİNİK ÖNEME SAHİP BAZI MADDELERİN TAYİNİNE YÖNELİK BİYOSENSÖR GELİŞTİRME , Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2015

Post Graduate, VAN GÖLÜ BALIĞI KARACIĞERİ 6-FOSFOGLUKONAT DEHİDROGENAZIN (EC1.1.1.44; 6 PGD) AFİNİTE KROMATOĞRAFİSİ İLE SAFLAŞTIRILMASI VE KARAKTERİZASYONU, Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2010

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Sensors, Biochemistry, Bioorganic Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, –Seçiniz–, Fen Fakültesi, Kimya, 2016 - Continues

Advising Theses

Güler M., KARBOKSİLLENMİŞ GRAFEN OKSİT DESTEKLİ Au NANOPARÇACIK TEMELLİ NON-ENZİMATİK AMPEROMETRİK GLUKOZ SENSÖRÜN GELİŞTİRİLMESİ, Post Graduate, Y.DİLMAÇ(Student), 2020

Güler M., İnsan serumunda Parasetamolün Elektroanalitik Tayini İçin Karboksillenmiş Grafen Oksit Destekli Pd Nanoparçacıkların Sentezlenmesi, Post Graduate, S.Jameel(Student), 2019

Güler M., Kontakt lens çözeltisindeki hidrojen peroksitin amperometrik olarak tayin edilmesi için fonksiyonel silika jel destekli Au nanoparçacıkların sentezlenmesi, Post Graduate, L.BAYRAM(Student), 2019

Jury Memberships

Post Graduate, Tez savunma jürisi, Van Yüzüncü Yıl Üniversitesi Fen Fakültesi, July, 2019

Post Graduate, Yüksek lisans tez savunma jürisi, Van Yüzüncü Yıl Üniversitesi Fen Fakültesi, July, 2017

Post Graduate, Tez savunma jürisi, Van Yüzüncü Yıl Üniversitesi Fen Fakültesi, July, 2017

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

- **Fabrication of non-enzymatic glucose sensor dependent upon Au nanoparticles deposited on carboxylated graphene oxide**
Dilmac Y., Güler M.
Journal of Electroanalytical Chemistry, vol.864, 2020 (Journal Indexed in SCI Expanded)
- **Electroanalytical Determination of Paracetamol Using Pd Nanoparticles Deposited on Carboxylated Graphene Oxide Modified Glassy Carbon Electrode**
Saleem S. J. , Guler M.
ELECTROANALYSIS, vol.31, pp.2187-2198, 2019 (Journal Indexed in SCI)
- **An ultra-sensitive non-enzymatic hydrogen peroxide sensor based on SiO₂-APTES supported Au nanoparticles modified glassy carbon electrode**
Bayram L., Güler M.
PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, vol.29, pp.390-396, 2019 (Journal Indexed in SCI)
- **Palladium nanoparticles decorated (3-aminopropyl)triethoxysilane functionalized reduced graphene oxide for electrochemical determination of glucose and hydrogen peroxide**
Güler M., Dilmac Y.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.834, pp.49-55, 2019 (Journal Indexed in SCI)
- **A novel nonenzymatic hydrogen peroxide amperometric sensor based on Pd@CeO₂-NH₂ nanocomposites modified glassy carbon electrode**
Güler M., Türkoğlu V., Kıvrak A., KARAHAN F.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.90, pp.454-460, 2018 (Journal Indexed in SCI)
- **Electrochemical sensing of hydrogen peroxide using Pd@Ag bimetallic nanoparticles decorated functionalized reduced graphene oxide**
Güler M., Türkoğlu V., BULUT A., Zahmakran M.
ELECTROCHIMICA ACTA, vol.263, pp.118-126, 2018 (Journal Indexed in SCI)
- **Differential pulse voltammetric determination of dopamine using Pd nanoparticles deposited on (3-aminopropyl)triethoxysilane functionalized CeO₂ nanoparticles**
Güler M.
TURKISH JOURNAL OF CHEMISTRY, vol.42, pp.1124-1135, 2018 (Journal Indexed in SCI)
- **A Novel Enzymatic Glucose Biosensor and Nonenzymatic Hydrogen Peroxide Sensor Based on (3-Aminopropyl) Triethoxysilane Functionalized Reduced Graphene Oxide**
Güler M., Türkoğlu V., Kıvanç M. R.
ELECTROANALYSIS, vol.29, pp.2507-2515, 2017 (Journal Indexed in SCI)
- **Determination of malation, methidathion, and chlorpyrifos ethyl pesticides using acetylcholinesterase biosensor based on Nafion/Ag@rGO-NH₂ nanocomposites**
Güler M., Türkoğlu V., Başı Z.
ELECTROCHIMICA ACTA, vol.240, pp.129-135, 2017 (Journal Indexed in SCI)
- **Electrochemical detection of malathion pesticide using acetylcholinesterase biosensor based on glassy carbon electrode modified with conducting polymer film**
Güler M., Türkoğlu V., Kıvrak A.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, pp.12343-12351, 2016 (Journal Indexed in SCI)
- **A novel glucose oxidase biosensor based on poly([2,2 ' ; 5 ' ,2 ' ']-terthiophene-3 '-carbaldehyde)**

modified electrode

Güler M., Türkoğlu V., Kivrak A.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.79, pp.262-268, 2015 (Journal Indexed in SCI)

● **Properties and some in vitro studies of 6-phosphogluconate dehydrogenase purified from the liver of Chalcalburnus tarichi, the only fish living in Lake Van's highly alkaline water (pH 9.8)**

Güler M., Türkoğlu V., Kıvanç M. R.

TURKISH JOURNAL OF CHEMISTRY, vol.39, pp.1050-1058, 2015 (Journal Indexed in SCI)

● **In Vitro Determination of 6PGD Enzyme Activity Purified from Lake Van Fish (Chalcalburnus tarichii Pallas, 1811) Liver Exposed to Pesticides**

Güler M., Kıvanç M. R., Türkoğlu V., BASI Z., Kivrak H.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.91, pp.560-564, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

● **In vitro Effects of Certain Plant Extracts on Acetylcholinesterase (EC 3.1.1.7) Enzyme in Lake Van Fish Liver and Brain**

Başı Z., Türkoğlu V., Güler M., Kıvanç M. R.

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.44, pp.435-440, 2016 (International Refereed University Journal)

● **In Vitro Inhibition of Human Plasma and Erythrocyte AChE by Various Drugs**

Kıvanç M. R., Türkoğlu V., Güler M., Başı Z.

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.44, pp.217-224, 2016 (International Refereed University Journal)

Refereed Congress / Symposium Publications in Proceedings

● **Electroanalytical Determination of H₂O₂ Using Glassy Carbon Electrode Modified with Au Nanoparticles Deposited on Functionalized TiO₂ Nanoparticles**

Güler M.

4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL & APPLIED SCIENCES ICANAS 2019, Ağrı, Turkey, 19 - 22 June 2019, pp.379-388

● **An Electrochemical Sensor Based on Pd@Au/TiO₂-APTES Nanocomposites Modified Glassy Carbon Electrode for Determination of Dopamine**

Güler M.

International Science and Academic Congress (insac ereğli), Konya, Turkey, 9 - 10 March 2019, vol.1, pp.344-354

● **The Research of In vitro Effect of Extracts of Ecballium Elaterium and Salvia Triloba Plants on Acetylcholinesterase Enzyme (AChE; EC 3.1.1.7) in Human Serum**

Tekin Ö., Türkoğlu V., Baş Z., Güler M.

1. Eurasia Biochemical Approaches & Technologies (1. EBAT) Congress, Antalya, Turkey, 27 - 30 October 2018, pp.69

● **AN ENZYMELESS HYDROGEN PEROXIDE AMPEROMETRIC SENSOR BASED ON Pd NANOPARTICLES SUPPORTED ON (3-AMINOPROPYL) TRIETHOXYSILANE FUNCTIONALIZED CEO₂**

Güler M., Türkoğlu V.

2. International Conference on Material Science and Technology in Cappadocia, Nevşehir, Turkey, 11 - 13 October 2017, pp.513

● **A NONENZYMATIC HYDROGEN PEROXIDE SENSOR BASED ON (3-AMINOPROPYL) TRIETHOXYSILANE FUNCTIONALIZED REDUCED GRAPHENE OXIDE**

Güler M., Türkoğlu V.

2. International Conference on Material Science and Technology in Cappadocia, Nevşehir, Turkey, 11 - 13 October 2017, pp.726

● **The Investigate of Effect of *Matricaria chamomilla* L. Plant on Angiotensin Converting Enzyme Purified from Human Plasma**

Başı Z., Türkoğlu V., Güler M.

● II. International Iğdır Symposium (IGDIRSEMP 2017, Iğdır, Turkey), Iğdır, Turkey, 9 - 11 October 2017, pp.193

● **Effect Of Oxide And Reduced Glutathione On Angiotensin Converting Enzyme Purified By From Human Plasma**

Başı Z., Türkoğlu V., Kıvanç M. R. , Güler M.

● 3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, İzmir, Turkey, 12 - 15 September 2017, pp.140

● **An enzymatic glucose biosensor and sensitive enzyme-free H₂O₂ sensor based on reduced graphene, Co₃O₄, and ionic liquid nanocomposites modified glassy carbon electrode**

Güler M., Türkoğlu V.

● AACD 2016 International Conference 10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016

● **A novel glucose and H₂O₂ biosensor based on nafion and amine functionalized reduced graphene oxide**

Türkoğlu V., Güler M., Kıvanç M. R. , Başı Z.

● AACD 2016 International Conference 10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016

● **FUNCTIONALIZED REDUCED GRAPHENE OXIDE/Pd/GO_x/NAFION NANOCOMPOSITES FILM for GLUCOSE BIOSENSING**

Güler M., Türkoğlu V.

● AACD 2016 International Conference 10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016

● ***Centaurea solstitialis* L. subsp. *carneola* (Boiss.) Wagenitz, *Sideritis brevidens* P.H. Davis ve *Origanum majorana* Bitkilerinin İnsan Plazması Anjiotensin Konverting Enzim Üzerine Etkilerinin Araştırılması**

Önen Y., Türkoğlu V., Başı Z., Güler M.

● 10. Ulusal Afinitive Teknikleri Kongresi, Balıkesir, Turkey, 26 - 28 May 2016, pp.70

● **Investigation of in vitro effect of *Alcanna tinctoria* root chloroform extract on human erythrocyte 6-phosphogluconate dehydrogenase, glucose 6-phosphate dehydrogenase, and glutathione reductase.**

Çakar M., Türkoğlu V., Başı Z., Güler M., Kıvanç M. R.

● International conference on applied informatic for health and life science, Turkish-German workshop on bioinformatic recent development from health to nanotechnology, Aydın, Turkey, 19 - 23 October 2014, pp.195

● **Electrochemical determination of glucose based on the immobilization of glucose oxidase onto poly(2,3-di(thiophene-2-yl) naphthalene -1,4-dione) modified glassy carbon electrode**

Güler M., Türkoğlu V., Kıvanç M. R. , Kıvrak A., Başı Z., Türkoğlu N.

● International conference on applied informatic for health and life science, Turkish-German workshop on bioinformatic recent development from health to nanotechnology, Aydın, Turkey, 19 - 23 October 2014, pp.190

● **The Investigation of in vitro effects of water-soluble extract of *Plantago lanceolata* on human erythrocytes glutathione reductase enzyme activity**

Güler M., Kıvanç M. R. , Türkoğlu V.

● The international conference on enzyme science and technology, Aydın, Turkey, 31 October - 04 November 2011, pp.29

● **The effects of some water-soluble pesticides on 6-phosphogluconate dehydrogenase enzyme activity purified from Lake Van fish (*Chalcalburnus tarichii* Pallas, 1811) liver.**

Güler M., Kıvanç M. R. , Türkoğlu V., Başı Z.

1st International Symposium on secondary metabolites chemical, biological and biotechnological properties,

- Denizli, Turkey, 12 - 15 September 2011, pp.1
Van Gölü balığı (Calcalburnus tarichii Pallas, 1811) karaciğerinden saflaştırılan 6-fosfolukonat dehidrogenaz üzerine bazı ilaçların etkisi: Bir in vitro çalışma
Güler M., Türkoğlu V., Kıvanç M. R.
- Kromatografi 2011, Diyarbakır, Turkey, 7 - 10 September 2011, pp.17
İnsan plazma ve eritrosit hemolizati asetilkolinesteraz (AChE, EC 3.1.1.7) enzimi üzerine bazı antibiyotik ve ağrı kesici ilaçların in vitro etkilerinin araştırılması
Kıvanç M. R., Türkoğlu V., Güler M.
- Kromatografi 2011, Diyarbakır, Turkey, 7 - 10 September 2011, pp.10
Van Gölü balığının (Chalcalburnus tarichii Pallas, 1811) karaciğer ve beyin homojenatındaki asetilkolinesteraz (EC 3.1.1.7) enzimi üzerine bazı bitki ekstraktlarının in vitro etkilerinin araştırılması
Başı Z., Türkoğlu V., Güler M.
- 5. Ulusal veteriner biyokimya ve klinik biyokimya kongresi, Aydın, Turkey, 6 - 08 September 2011, pp.8
Van Gölü balığının (Chalcalburnus Tarichi) karaciğerinden 6-fosfolukonat dehidrogenaz (E.C.1.1.1.44; 6PGD) enziminin afinite kromatografisi ile saflaştırılması ve karakterizasyonu
Güler M., Türkoğlu V.
Kromatografi 2010, Erzurum, Turkey, 16 - 19 June 2010, pp.45

Scientific Refereeing

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, SCI Journal, September 2020
 JOURNAL OF ELECTROANALYTICAL CHEMISTRY, SCI Journal, August 2020
 ANALYTICAL CHEMISTRY, SCI Journal, August 2020
 JOURNAL OF ELECTROANALYTICAL CHEMISTRY, SCI Journal, July 2020
 ACS SUSTAINABLE CHEMISTRY & ENGINEERING, SCI Journal, June 2020
 ECS Journal of Solid State Science and Technology, SCI Journal, June 2020
 BIOSENSORS & BIOELECTRONICS, SCI Journal, May 2020
 ACS SUSTAINABLE CHEMISTRY & ENGINEERING, SCI Journal, May 2020
 Electroanalysis, SCI Journal, May 2020
 POWDER TECHNOLOGY, SCI Journal, May 2020
 JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS, SCI Journal, April 2020
 RSC Advances, SCI Journal, January 2020
 Electrochimica ACTA, SCI Journal, November 2019
 Electroanalysis, SCI Journal, November 2019
 Electroanalysis, SCI Journal, September 2019
 Journal of Electroanalytical Chemistry, SCI Journal, August 2019
 Sensors and Actuators B, SCI Journal, April 2019
 Biosensors and Bioelectronics, SCI Journal, April 2019
 Fullerenes, Nanotubes and Carbon Nanostructures, SCI Journal, March 2019
 Chemselect, SCI Journal, January 2019
 Sensors and Actuators B: Chemical, SCI Journal, November 2018
 Journal of Electroanalytical Chemistry, SCI Journal, September 2018
 Chemselect, SCI Journal, September 2018
 Biosensors and Bioelectronics, SCI Journal, March 2018
 Biosensors and Bioelectronics, SCI Journal, February 2018
 Electroanalysis, SCI Journal, December 2017
 Biosensors and Bioelectronics, SCI Journal, December 2017
 Biosensors and Bioelectronics, SCI Journal, November 2017
 Chemselect, SCI Journal, October 2017

Mini-Reviews in Medicinal Chemistry, SCI Journal, November 2016

Journal of Enzyme Inhibition and Medicinal Chemistry, SCI Journal, March 2016

Citations

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