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Education Information

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri, Kimya, Turkey 2010 - 2014

Postgraduate, Gazi University, Fen Bilimleri, Kimya Eğitimi, Turkey 2007 - 2009

Undergraduate, Gazi University, Gökçeada Uygulamalı Bilimler Y.O., Kimya Eğitimi, Turkey 2002 - 2007

Dissertations

Doctorate, 3,3'-Diaminobenzidinin Kopolimer ve Kompozitlerinin Elektrokimyasal Olarak Hazırlanması, Karakterizasyonu ve Fenolik Bileşiklerin Tayininde Kullanılması, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Kimya, 2014

Postgraduate, Kimya Öğretmen Adaylarının Bilimin Doğası Hakkındaki Görüşleri İle İlgili Boylamsal Bir Çalışma, Gazi University, Fen Bilimleri Enstitüsü, Kimya Eğitimi, 2009

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2018 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2016 - 2018

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2014 - 2016

Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2008 - 2014

Courses

Elektrokimyaya Giriş, Undergraduate, 2020 - 2021

Mühendislik Kimyası, Undergraduate, 2020 - 2021

Uygulamalı Mühendislik Kimyası, Undergraduate, 2019 - 2020

Jury Memberships

Post Graduate, Yüksek Lisans tez savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, June, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of cobalt doping on photocatalytic water splitting activity of NiTi-layered double hydroxide**
Samuei S., Akbari S. S., ÜLKER E., KARADAŞ F.
CATALYSIS SCIENCE & TECHNOLOGY, 2022 (Journal Indexed in SCI)
- II. **Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen species production, electrochemical characterization and density functional theory**
Abbas S., Rashid F., Ulker E., Zaib S., Ayub K., Ullah S., Nadeem M. A., Yousuf S., Ludwig R., Ali S., et al.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.3, pp.1068-1081, 2021 (Journal Indexed in SCI)
- III. **Preparation and Capacitance Properties of Graphene Quantum Dot/NiFe-Layered Double-Hydroxide Nanocomposite**
Samuei S., Rezvani Z., Shomali A., ÜLKER E., KARADAŞ F.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, vol.2021, no.3, pp.258-266, 2021 (Journal Indexed in SCI)
- IV. **Hydrothermally Synthesized Cobalt Borophosphate as an Electrocatalyst for Water Oxidation in the pH Range from 7 to 14**
Ulker E.
CHEMELECTROCHEM, vol.6, no.12, pp.3132-3138, 2019 (Journal Indexed in SCI)
- V. **Water Oxidation Electrocatalysis with a Cobalt-Borate-Based Hybrid System under Neutral Conditions**
Turhan E. A., Nune S. V. K., Ulker E., Sahin U., Dede Y., Karadas F.
CHEMISTRY-A EUROPEAN JOURNAL, vol.24, no.41, pp.10372-10382, 2018 (Journal Indexed in SCI)
- VI. **Tuning the Electronic Properties of Prussian Blue Analogues for Efficient Water Oxidation Electrocatalysis: Experimental and Computational Studies**
Alsac E. P., Ulker E., Nune S. V. K., Dede Y., Karadas F.
CHEMISTRY-A EUROPEAN JOURNAL, vol.24, no.19, pp.4856-4863, 2018 (Journal Indexed in SCI)
- VII. **Electrocatalytic hydrogen evolution with cobalt-poly(4-vinylpyridine) metallopolymers**
Kap Z., Ulker E., Nune S. V. K., Karadas F.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.48, no.2, pp.201-209, 2018 (Journal Indexed in SCI)
- VIII. **A Cyanide-Based Coordination Polymer for Hydrogen Evolution Electrocatalysis**
Alsac E. P., Ulker E., Nune S. V. K., Karadas F.
CATALYSIS LETTERS, vol.148, no.2, pp.531-538, 2018 (Journal Indexed in SCI)
- IX. **One-Dimensional Copper(II) Coordination Polymer as an Electrocatalyst for Water Oxidation**
Mishra R., Ulker E., Karadas F.
CHEMELECTROCHEM, vol.4, no.1, pp.75-80, 2017 (Journal Indexed in SCI)
- X. **Metal Dicyanamides as Efficient and Robust Water-Oxidation Catalysts**
Nune S. V. K., Basaran A. T., Ulker E., Mishra R., Karadas F.
CHEMCATCHEM, vol.9, no.2, pp.300-307, 2017 (Journal Indexed in SCI)
- XI. **Electrode Prepared with Combination of Different Conductive Polymers for Hydroquinone Determination in River Water**
Ulker E., KAVANOZ M.
ACTA CHIMICA SLOVENICA, vol.63, no.1, pp.47-54, 2016 (Journal Indexed in SCI)
- XII. **Determination of epinephrine in human serum using a Pt electrode modified by polyaniline-poly(3-methylthiophene)-poly(3,3'-diaminobenzidine)**
Ulker E., Kavanoz M.
CANADIAN JOURNAL OF CHEMISTRY, vol.93, no.11, pp.1239-1244, 2015 (Journal Indexed in SCI)
- XIII. **Synthesis of Poly(Vinylferrocene) Perchlorate/Poly(3,3'-Diaminobenzidine) Modified Electrode in Dichloromethane for Electroanalysis of Hydroquinone**
Ulker E., Kavanoz M.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.26, no.9, pp.1947-1955, 2015 (Journal Indexed in SCI)

- XIV. **A Novel Polyaniline-Poly(3-Methylthiophene)-Poly(3,3'-Diaminobenzidine) Electrode for the Determination of Dopamine in Human Serum**
Kavanoz M., Ulker E., BUK U.
ANALYTICAL LETTERS, vol.48, no.1, pp.75-88, 2015 (Journal Indexed in SCI)
- XV. **Determination of Hydroquinone Using Poly(3-methylthiophene) Synthesized Electrochemically on Pt Electrode in Methylene Chloride**
Kavanoz M., BUK U., Ulker E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.19, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The Effect of Polymer Capping Group to the Electrocatalytic Water Oxidation Activities of Prussian Blue Analogues**
ÜLKER E.
Journal of the Turkish Chemical Society Section A: Chemistry, vol.7, no.1, pp.225-232, 2020 (Other Refereed National Journals)
- II. **Non-Enzymatic phenol determination in river water over modified electrode with poly (3-methylthiophene)**
KAVANOZ M., BUK U., Ülker E.
HITTITE JOURNAL OF SCIENCE AND ENGINEERING, vol.3, no.1, pp.35-40, 2016 (Other Refereed National Journals)
- III. **Electroanalysis of Pyrocatechol in River Water Over Pt Electrode Modified with Polyaniline-Poly(3-methylthiophene)- Poly(3,3'-diaminobenzidine) Film**
ÜLKER E., KAVANOZ M.
Hacettepe J. Biol. & Chem., vol.43, no.3, pp.329-337, 2016 (International Refereed University Journal)
- IV. **Non-Enzymatic Phenol Determination in River Water Over Modified Electrode with Poly(3-methylthiophene)**
KAVANOZ M., BUK U., ÜLKER E.
HITTITE JOURNAL OF SCIENCE AND ENGINEERING, vol.3, no.1, pp.35-40, 2016 (International Refereed University Journal)
- V. **THE DETERMINATION OF DOPAC OVER POLYANILINEPOLY(3-METHYLTHIOPHENE)-POLY(3,3'-DIAMINOBENZIDINE) ELECTRODE**
KAVANOZ M., ÜLKER E.
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, no.2, pp.36-41, 2015 (Other Refereed National Journals)
- VI. **A New Modified Electrode Based on Poly(3,3'diaminobenzidine) – Poly(3methylthiophene) Copolymer Film for Amperometric Determination of Catechol**
KAVANOZ M., ÜLKER E., BUK U.
AWERProcedia Advances in Applied Sciences, no.1, pp.741-747, 2013 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **COBALT-NICKEL BORATE WITH KOTOITE STRUCTURE BASED HYBRID MATERIAL AS WATER OXIDATION ELECTROCATALYST**
Enez S., Samuei S., KARADAŞ F., ÜLKER E.
9th Global Congress on Renewable Energy and Environment, Girne, Cyprus (Kkctc), 08 July 2021
- II. **THE EFFECT OF COBALT ON ELECTROCATALYTIC PERFORMANCE OF Ni₃B₂O₆ ON WATER OXIDATION IN ALKALINE MEDIUM**
Enez S., Samuei S., KARADAŞ F., ÜLKER E.
9th Global Congress on Renewable Energy and Environment, Girne, Cyprus (Kkctc), 08 July 2021

- III. **THE EFFECT OF SECONDARY METAL ON PERFORMANCE OF COPPER BORATE FOR ELECTROCATALYTIC WATER OXIDATION**
ÜLKER E., Konuksever V. K.
2. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 22 May 2021
- IV. **Cobalt-Embedded Poly(3-Methyl Thiophene) Film as Electrocatalyst Toward Hydrogen Evolution Reaction**
ÜLKER E.
3. International Eurasian Conference on Biological and Chemical Sciences, 19 - 20 March 2020
- V. **SOLID-STATE SYNTHESIZED COBALT-BASED BOROPHOSPHATE FOR ELECTROCATALYTIC WATER OXIDATION**
ÜLKER E.
International Conference on Physical Chemistry and Functional Materials, 19 - 21 June 2018
- VI. **Solid-State Synthesized Cobalt Based Borophosphate for Electrocatalytic Water Oxidation**
ÜLKER E.
International Conference on Physical Chemistry and Functional Materials, Elazığ, Turkey, 19 - 21 June 2018
- VII. **Metal-Organic Frameworks as Hydrogen Evolution Catalysts**
DEMİR S., ÜLKER E.
3rd International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018, pp.192-193
- VIII. **Zirconium Metal-Organic Framework Platform as a Heterogeneous Catalysts for Electrochemical Hydrogen Evolution**
ÜLKER E., DEMİR S.
3rd International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018, pp.189-191
- IX. **Metal-Organic Frameworks as Hydrogen Evolution Catalysts**
DEMİR S., ÜLKER E.
The Third International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018
- X. **Zirconium Metal-Organic Framework Platform as a Heterogeneous Catalysts for Electrochemical Hydrogen Evolution**
ÜLKER E., DEMİR S.
The Third International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018
- XI. **Cyanide-based Coordination Networks as Bifunctional Electrocatalysts for Overall Water Splitting**
Alsaç E. P., NUNE S. V. K., ÜLKER E., KARADAS F.
Faraday Discussions on Artificial Photosynthesis, Kyoto, Japan, 28 February - 02 March 2017
- XII. **Cobalt-based Coordination Compounds as Heterogeneous Water Oxidation Catalysts**
NUNE S. V. K., Alsaç E. P., ÜLKER E., KARADAS F.
67th Conference of International Society of Electrochemistry, Lahey, Netherlands, 21 - 26 August 2016
- XIII. **Cobalt-Based Coordination Compounds For Electrocatalytic Water Oxidation**
ÜLKER E., BASARAN A. T., NUNE S. V. K., KARADAS F.
6. Kataliz Kongresi, Bursa, Turkey, 27 - 30 April 2016, pp.168
- XIV. **Polianilin – Poli(3-metiltiyofen) - Poli (3,3'- diaminobenzidin) Elektrot Üzerinden DOPAC Tayini**
KAVANOZ M., ÜLKER E.
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 - 19 May 2015, pp.158
- XV. **Poli(3,3'-diaminobenzidin) - Poli(vinilferrosenyum) perklorat Modifiye Elektrot ile Amperometrik Hidrokinon Tayini**
KAVANOZ M., ÜLKER E., BUK U.
III. Ulusal Uygulamalı Elektrokimya Lisansüstü Yaz Okulu ve Çalıştayı, Bahkesir, Turkey, 3 - 07 June 2014, pp.8
- XVI. **Determination of Phenol Using Modified Electrode Poly(3-methylthiophene) in Methylene Chloride**
KAVANOZ M., BUK U., ÜLKER E.
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013
- XVII. **Analysis of Tap Water Samples in The Eastern Black Sea Regions**
KAVANOZ M., Çakmak Y., Özkan Ö., ÜLKER E.
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013

- XVIII. **Determination of Hydroquinone Using A New Poly (3,3'- diaminobenzidine)- Poly(3-Methylthiophene) (PDAB-P3MT) Modified Electrode**
KAVANOZ M., ÜLKER E., BUK U.
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013
- XIX. **A New Modified Electrode Synthesis Based on Poly 3 3 Diaminobenzidine Poly 3 Methylthiophene**
ÜLKER E., KAVANOZ M., BÜK U.
International Porous and Powder Materials Symposium and Exhibition, 3 - 06 September 2013
- XX. **Electrochemical Synthesis And Characterization Of A Novel Poly(3-Methylthiophene) Modified Electrode Containing Ferrocene**
KAVANOZ M., BUK U., ÜLKER E.
10th Internatioanal Electrochemistry Meeting in Turkey, Konya, Turkey, 4 - 08 September 2013, pp.134
- XXI. **A Novel Poly(3,3'-Diaminobenzidine) / Poly(3-Methylthiophene) Modified Electrode For Determination Of Epinephrine**
KAVANOZ M., ÜLKER E., BUK U.
10th Internatioanal Electrochemistry Meeting in Turkey, Konya, Turkey, 4 - 08 September 2013, pp.111
- XXII. **A New Modified Electrode Synthesis Based on Poly (3,3'-diaminobenzidine) – Poly (3-Methylthiophene) (PDAB-P3MT)**
KAVANOZ M., ÜLKER E., BUK U.
International Porous Powder Materials Symposium and Exhibition, İzmir, Turkey, 3 - 06 September 2013, pp.136
- XXIII. **Electrochemical Preparation of A New Porous Poly(3,3'diaminobenzidine) – Polyaniline (PDAB/PANI) Film**
KAVANOZ M., ÜLKER E., BUK U.
International Porous Powder Materials Symposium and Exhibition, İzmir, Turkey, 3 - 06 September 2013, pp.135
- XXIV. **Electrochemical Synthesis and Characterization of Poly (3,3'- diaminobenzidine) (PDAB) Modified Electrode in Non-Aqueous Media**
KAVANOZ M., ÜLKER E., BUK U.
International Porous Powder Materials Symposium and Exhibition, İzmir, Turkey, 3 - 06 September 2013, pp.136
- XXV. **Amperometric Determination of Dopamine Using Poly (3,3'- diaminobenzidine) - Poly(3-Methylthiophene) Modified Electrode**
KAVANOZ M., ÜLKER E., BUK U.
1. Uluslararası Katılımlı Elektrokimya Çalıştayı, Muğla, Turkey, 23 - 28 June 2013, pp.75
- XXVI. **Amperometric Determination of Phenol Using Modified Electrode Based On Poly (3,3'- diaminobenzidine) - Poly(3-Methylthiophene)**
KAVANOZ M., ÜLKER E., BUK U.
1. Uluslararası Katılımlı Elektrokimya Çalıştayı, Muğla, Turkey, 23 - 28 June 2013, pp.77
- XXVII. **A New Modified Electrode Based on Poly 3 3 diaminobenzidine Poly 3 methylthiophene Copolymer Film for Amperometric Determination of Catechol**
KAVANOZ M., ÜLKER E., BÜK U.
Global Conference on Environmental Studies, 24 - 27 April 2013
- XXVIII. **Determination of Hydroquinone Using Modified Electrode Poly(3methylthiophene) in Methylene Chloride**
KAVANOZ M., BUK U., ÜLKER E.
1st Global Conference on Enrvironmental Studies, Antalya, Turkey, 24 - 27 April 2013

Scientific Refereeing

Life and Science, Other Indexed Journal, April 2020

CHEMELECTROCHEM, SCI Journal, September 2019

JOURNAL OF THE TURKİSH CHEMİCAL SOCIETY, SECTION A: CHEMİSTRY, National Scientific Refreed Journal, June 2016

Edit Congress and Symposium Activities

- 3RD INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Attendee, Ankara, Turkey, 2020
5. Fiziksel Kimya Kongresi, Attendee, Konya, Turkey, 2015
- III. Ulusal Uygulamalı Elektrokimya Lisansüstü Yaz Okulu ve Çalıştayı, Attendee, Balıkesir, Turkey, 2014
- Black Sea Basin Conference On Analytical Chemistry (6BBCAC), Attendee, Trabzon, Turkey, 2013
- 10th International Electrochemistry Meeting in Turkey, Attendee, Konya, Turkey, 2013
- International Porous and Powder Materials Symposium and Exhibition, Attendee, İzmir, Turkey, 2013
- Uluslararası Katılımlı Elektrokimya Çalıştayı Nanoyapı Modifiye Elektrokimyasal ve Biyoelektrokimyasal Sistemler, Muğla, Haziran 2013, Attendee, Muğla, Turkey, 2013
- 1st Global Conference on Environmental Studies, Attendee, Antalya, Turkey, 2013
- II. Eser Analiz Çalıştayı, Karadeniz Teknik Üniversitesi, Kimya Bölümü, Attendee, Trabzon, Turkey, 2011

Citations

Total Citations (WOS):142

h-index (WOS):7

Scholarships

DOKTORA SONRASI ARAŞTIRMA, TUBITAK, 2015 - 2016