

# HILAL ÇELİK KAZICI

## ASSOC. PROF.

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### International Researcher IDs

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## Learning Knowledge

Doctorate  
2007 - 2014

Ankara University, Mühendislik Ve Mimarlık Fakültesi, Kimya Mühendisliği, Turkey

Postgraduate  
2005 - 2007

Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Fen Bilimleri Enstitüsü, Kimya, Fizikokimya, Turkey

Undergraduate  
1999 - 2003

Ataturk University, Mühendislik Mimarlık Fakültesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey

## Certificates, Courses and Trainings

Education Management and Planning, 4. National Applied Electrochemistry Graduate Summer School, Celal Bayar Üniversitesi, 2016

Education Management and Planning, SPSS veri analizi, Yüzüncü Yıl Üniversitesi, 2015

Education Management and Planning, Applied Biochemistry current issues in summer school, Aksaray Üniversitesi, 2015

Education Management and Planning, Applied and HPLC Certified Training, kimyagerler derneği, 2015

## Dissertations

Doctorate, AROMATİK KETONLARIN BİTKİ BİYOKATALİZÖRLÜĞÜNDE ENANTİYOSEÇİMLİ OLARAK BİYOİNDİRGENMESİ İLE (S)-1-FENİL ETANOL ÜRETİMİ , Ankara University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği, 2014

Postgraduate, ULEKSİT CEVHERİNİN PERKLORİK ASİT ÇÖZELTİLERİNDEKİ ÇÖZÜNÜRLESTİRME KİNETİĞİ, KALSİNASYONU VE OPTİMİZASYONU, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya/Fizikokimya, 2007

## Academic Titles / Tasks

Associate Professor  
2020 - Continues

Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği

Assistant Professor  
2018 - Continues

Van Yüzüncü Yıl University, Mühendislik Ve Mimarlık Fakültesi, Kimya Mühendisliği

Assistant Professor

2015 - 2018

Van Yüzüncü Yil University, Mühendislik Ve Mimarlık Fakültesi, Kimya Mühendisliği

Research Assistant PhD

2014 - 2015

Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Research Assistant

2012 - 2014

Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Research Assistant

2007 - 2012

Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

## Supported Projects

1. Çelik Kazıcı H., Project Supported by Other Official Institutions, PVC kapı ve pencere profili imalatında iklim koşulları ve maliyet açısından en uygun üretim parametrelerinin belirlenmesi, 2020 - Continues
2. Öztürk D., Çelik Kazıcı H., ŞİRP Z., Akınay Y., Özgüven A., Project Supported by Higher Education Institutions, Tekstil Endüstrisi Atıksularından KOİ Gideriminin Heterojen Elektro Fenton Prosesi ile İncelenmesi ve Proses Koşullarının Optimizasyonu, 2021 - 2023
3. Akınay Y., Çelik Kazıcı H., Kızılcay A. O., TÜBİTAK Project, Sedef Pigment Katkılı Radar Soğurucu Yapısal Kompozitlerin Üretilmesi Ve Geliştirilmesi, 2020 - 2023
4. Zengin A., Çelik Kazıcı H., TANERİ B., Project Supported by Higher Education Institutions, Nitrit Tayini İçin Seçici ve Hassas Elektrokimyasal Sensör Tasarımı, 2021 - 2022
5. Çelik Kazıcı H., KILIÇLI Y., Project Supported by Higher Education Institutions, Yüzüncü Yıl Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Biriminin Teknik Altyapısının Modernizasyonu ve Kalite Yönetim Sisteminin Geliştirilmesi, 2020 - 2022
6. Çelik Kazıcı H., MUHTASIM MUSTAFA R., Project Supported by Higher Education Institutions, Hidrojen üretimi üzerine aktif karbon destekli PdRu katalizörlerinin mono ve bimetalik etkileri, 2020 - 2021
7. Çelik Kazıcı H., Project Supported by Higher Education Institutions, İki metalli katalizörlerin hidrojen üretim kapasite özellikleri, 2019 - 2020
8. Çelik Kazıcı H., YAYLA M., Project Supported by Higher Education Institutions, Modifiye Edilmiş Yüzey Baskılı Elektrotlar ile Gıda Katkı Maddelerinin Elektrokimyasal Davranışlarının İncelenmesi, 2018 - 2019
9. Çelik Kazıcı H., Project Supported by Higher Education Institutions, Metal sistemler ile H<sub>2</sub> üretimi için katalizör geliştirme çalışmaları, 2018 - 2019
10. Çelik Kazıcı H., SALMAN F., Project Supported by Higher Education Institutions, Multimetalli Nanokatalizörlerin Sentezi Karakterizasyonu ve Glikoz Sensör Etkisinin Elektrokimyasal İncelenmesi, 2018 - 2019
11. Çelik Kazıcı H., YILDIZ F., Project Supported by Higher Education Institutions, Amonyum Boran Türevlerinden Hidrojen Eldesi için Uygun Katalizörlerin Sentezi Karakterizasyonu ve Optimizasyonu, 2018 - 2019
12. Demir Kıvrak H., Aktaş N., Şahan T., Zengin A., Çelik Kazıcı H., Aldemir A., Alpaslan D., Erşen Dudu T., Ulaş B., Uzun Y., et al., Project Supported by Higher Education Institutions, 13. Ulusal Kimya Mühendisliği Kongresi, 2018 - 2018
13. Çelik Kazıcı H., Project Supported by Higher Education Institutions, Kataliz uygulamaları için sodyum bor hidrür esaslı Ag-Co/MWCNT nanokompozitlerin sentezlenmesi, 2017 - 2017
14. Çelik Kazıcı H., NİŞO G., Project Supported by Higher Education Institutions, Çekirdek Kabuk Nanokatalizörlerin Sentezi ve Uygulaması, 2016 - 2017
15. Çelik Kazıcı H., Project Supported by Higher Education Institutions, Pd-Au bimetalik metal katalizörün hidrojen peroksit ve glikoz sensör ile glikoz biyosensör geliştirilmesinde kullanımı, 2015 - 2017

## Jury Memberships

Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Atatürk Üniversitesi, June, 2019

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yıl Üniversitesi, July, 2018

Post Graduate, Tez Savunma Jürisi, Siirt Üniversitesi, June, 2018

Post Graduate, Tez Savunma Jürisi, Yüzüncü Yıl Üniversitesi, March, 2017

Academic Staff Examination, 2016-2017, II. Dönem Lisansüstü Öğrenci Alımı Sınavı, Van Yüzüncü Yıl Üniversitesi, January, 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Simple detection of gluten in commercial gluten-containing samples with a novel nanoflower electrosensor made of molybdenum disulfide with comparison of the ELISA method**  
Salman F., Zengin A., Çelik Kazıcı H.  
Journal of Food Science, vol.89, no.5, pp.2747-2760, 2024 (SCI-Expanded)
- 2. The electromagnetic wave absorption properties of woven glass fiber composites filled with Sb<sub>2</sub>O<sub>3</sub> and SnO<sub>2</sub> nanoparticles doped mica pigments**  
Aknay Y., Colak B., TURAN M. E., Akkuş İ. N., Çelik Kazıcı H., Kizilcay A. O.  
POLYMER COMPOSITES, vol.43, no.12, pp.8784-8794, 2022 (SCI-Expanded)
- 3. Comparative of MIL101(Cr) and nano-MIL101(Cr) Electrode as an Electrochemical Hydrogen Peroxide Sensor**  
Salman F., Çelik Kazıcı H., Gülcan M.  
ELECTROANALYSIS, vol.34, no.10, pp.1598-1609, 2022 (SCI-Expanded)
- 4. Co-Mn-B Nanoparticles Supported on Epoxy-Based Polymer as Catalyst for Evolution of H<sub>2</sub> from Ammonia Borane Semi-Methanolysis**  
Çelik Kazıcı H., İZGİ M. S., ŞAHİN Ö.  
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.5, pp.2356-2368, 2022 (SCI-Expanded)
- 5. Synthesis of 3D Sn doped Sb<sub>2</sub>O<sub>3</sub> catalysts with different morphologies and their effects on the electrocatalytic hydrogen evolution reaction in acidic medium**  
Aknay Y., Kazıcı H., Akkuş İ. N., Salman F.  
CERAMICS INTERNATIONAL, vol.47, no.20, pp.29515-29524, 2021 (SCI-Expanded)
- 6. Effect of plasma pretreatment of Co-Cu-B catalyst on hydrogen generation from sodium borohydride methanolysis**  
ŞAHİN Ö., İZGİ M. S., Tayboga S., Kazıcı H.  
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.133, no.2, pp.851-861, 2021 (SCI-Expanded)
- 7. A comprehensive study on the synthesis, characterization and mathematical modeling of nanostructured Co-based catalysts using different support materials for AB hydrolysis**  
Çelik Kazıcı H., İZGİ M. S., ŞAHİN Ö.  
CHEMICAL PAPERS, vol.75, no.6, pp.2713-2725, 2021 (SCI-Expanded)
- 8. Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**  
Salman F., Çelik Kazıcı H., Demir Kıvrak H.  
FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING, pp.1-10, 2020 (SCI-Expanded)
- 9. CeO<sub>2</sub> supported multimetallic nano materials as an efficient catalyst for hydrogen generation from the hydrolysis of NaBH<sub>4</sub>**  
Izgi M. S., Baytar O., Sahin O., Kazici H. C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34857-34866, 2020 (SCI-Expanded)
- 10. Hydrogen production by using Ru nanoparticle decorated with Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>-NH<sub>2</sub> core-shell microspheres**  
Izgi M. S., Ece M. S., Kazici H., Sahin O., Onat E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.55, pp.30415-30430, 2020 (SCI-Expanded)

11. **Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub>-supported metal-organic framework MIL-101(Fe) for a highly selective and sensitive hydrogen peroxide electrochemical sensor**  
Salman F., Zengin A., Çelik Kazıcı H.  
IONICS, vol.26, no.10, pp.5221-5232, 2020 (SCI-Expanded)
12. **A comprehensive study of hydrogen production from ammonia borane via PdCoAg/AC nanoparticles and anodic current in alkaline medium: experimental design with response surface methodology**  
Çelik Kazıcı H., Yılmaz Ş., Şahan T., Yıldız F., Er O. F., Kivrak H.  
FRONTIERS IN ENERGY, vol.14, no.3, pp.578-589, 2020 (SCI-Expanded)
13. **Synthesis of Ferrocene Based Naphthoquinones and its Application as Novel Non-enzymatic Hydrogen Peroxide**  
ERTAS N. A., KAVAK E., Salman F., KAZICI H., Kivrak H., Kivrak A.  
ELECTROANALYSIS, vol.32, no.6, pp.1178-1185, 2020 (SCI-Expanded)
14. **Synthesis of Metal-Oxide-Supported Triple Nano Catalysts and Application to H<sub>2</sub> Production and H<sub>2</sub>O<sub>2</sub> Oxidation**  
Çelik Kazıcı H., Salman F., İZGİ M. S., ŞAHİN Ö.  
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.6, pp.3634-3644, 2020 (SCI-Expanded)
15. **Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**  
Salman F., Çelik Kazıcı H., Demir Kivrak H.  
FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING, vol.in press, 2020 (SCI-Expanded)
16. **Synthesis of Ferrocene Based Naphthoquinones and its Application as Novel Non-enzymatic Hydrogen Peroxide**  
Aslan Ertas N., Kavak E., Salman F., Çelik Kazıcı H., Demir Kivrak H., Kivrak A.  
Electroanalysis, vol.32, pp.1-10, 2020 (SCI-Expanded)
17. **An electrocatalyst for detection of glucose in human blood: synergy in Pd-AuNPs/GOx/C surfaces**  
Çelik Kazıcı H., Yayla M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.206, no.12, pp.1731-1742, 2019 (SCI-Expanded)
18. **Hydrogen production through the cooperation of a catalyst synthesized in ethanol medium and the effect of the plasma**  
İZGİ M. S., Onat E., Çelik Kazıcı H., ŞAHİN Ö.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI-Expanded)
19. **Novel activated carbon supported trimetallic PdCoAg nanoparticles as efficient catalysts for the hydrolytic dehydrogenation of ammonia borane**  
Çelik Kazıcı H., YILDIZ F., İzgi M. S., Ulaş B., Kivrak H.  
International Journal of Hydrogen Energy, vol.44, no.21, pp.10561-10572, 2019 (SCI-Expanded)
20. **Synthesis and characterization of novel Ti doped hexagonal mesoporous silica catalyst for nonenzymatic hydrogen peroxide oxidation**  
Duzenli D., ŞAHİN Ö., Çelik Kazıcı H., Aktaş N., Demir Kivrak H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.257, pp.92-98, 2018 (SCI-Expanded)
21. **Synthesis, characterization, and voltammetric hydrogen peroxide sensing on novel monometallic (Ag, Co/MWCNT) and bimetallic (AgCo/MWCNT) alloy nanoparticles**  
Çelik Kazıcı H., Salman F., Caglar A., Demir Kivrak H., Aktaş N.  
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.26, no.3, pp.145-151, 2018 (SCI-Expanded)
22. **Synthesis of Pd-Ni/C bimetallic materials and their application in non-enzymatic hydrogen peroxide detection**  
Çelik Kazıcı H., Salman F., Demir Kivrak H.  
MATERIALS SCIENCE-POLAND, vol.35, no.3, pp.660-666, 2017 (SCI-Expanded)
23. **Production of precursors for anti-Alzheimer drugs: Asymmetric bioreduction in a packed-bed bioreactor using immobilized D. carota cells**  
Çelik Kazıcı H., Bayraktar E., Mehmetoglu Ü.

- Preparative Biochemistry and Biotechnology, vol.47, no.1, pp.67-73, 2017 (SCI-Expanded)
24. **Facile and Rapid Synthesis of Microwave Assisted Pd Nanoparticles as Non-Enzymatic Hydrogen Peroxide Sensor**  
ŞAHİN Ö., Demir Kıvrak H., Kıvrak A., Çelik Kazıcı H., Alal O., Atbas D.  
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.12, no.1, pp.762-769, 2017 (SCI-Expanded)
  25. **Optimization of the asymmetric synthesis of chiral aromatic alcohol using freeze-dried carrots as whole-cell biocatalysts**  
Çelik Kazıcı H., BAYRAKTAR E., MEHMETOĞLU Ü.  
GREEN PROCESSING AND SYNTHESIS, vol.5, no.2, pp.131-137, 2016 (SCI-Expanded)
  26. **ENANTİYOMERİK OLARAK SAF SEKONDER ALKOLLERİN ÜRETİMİNDE BİTKİ BİYOKATALİZÖRLERİ KULLANIMI**  
Çelik Kazıcı H., mehmetoğlu ü.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, pp.49-56, 2015 (SCI-Expanded)
  27. **USE OF THE PLANT AS BIOCATALYSTS FOR PRODUCING ENANTIOMERICALLY PURE SECONDER ALCOHOL**  
Çelik Kazıcı H., MEHMETOĞLU Ü.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.1, pp.49-56, 2015 (SCI-Expanded)
  28. **Determination of the optimum conditions for boric acid extraction from ulexite in perchloric acid solutions**  
Gür A., Yıldız A., Çelik H., Selçuk A.  
ASIAN JOURNAL OF CHEMISTRY, vol.20, pp.2929-2936, 2008 (SCI-Expanded)

#### Articles Published in Other Journals

1. **Metal Nanoparticle Based Electrocatalyst Synthesis and Electrochemical Hydrogen Peroxide Sensor**  
SALMAN F., Çelik Kazıcı H., İZGİ M. S.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, no.1, pp.260-274, 2024 (Peer-Reviewed Journal)
2. **Carbon nano tube assisted triple metal electrode and high-impact electro sensor for preservative detection in food samples**  
Yayla Çiftçi M., Çelik Kazıcı H., Demir Kıvrak H.  
MATERIALS RESEARCH INNOVATIONS, vol.7, pp.1-12, 2023 (Scopus)
3. **Antimicrobial properties of multimetallic of silver compounds immobilized on active carbon and nano carbon tubes**  
Kazıcı H., Yönten V., Kıvanç M. R., Ertas M., Salman F., Yayla M.  
Current Research in Green and Sustainable Chemistry, vol.4, 2021 (Scopus)
4. **As a highly efficient reduced graphene oxide-supported ternary catalysts for the fast hydrogen release from NaBH<sub>4</sub>**  
Şahin Ö., Bozkurt A., Yayla M., Çelik Kazıcı H., İzgi M. S.  
Graphene Technology, pp.1-9, 2020 (Peer-Reviewed Journal)
5. **An Investigation into the Electrochemical Behavior of Beta-Blocker Drugs Using Reduced Graphene Oxide Modified Screen Printed Electrodes**  
Çelik Kazıcı H.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.1, pp.357-365, 2020 (Peer-Reviewed Journal)
6. **A novel study on the stepwise electrodeposition approach for the synthesis of Pd based nanoparticles, characterization and their enhanced electrooxidation activities**  
Avcı C., Cicek F., Çelik Kazıcı H., Kıvrak A., Demir Kıvrak H.  
INTERNATIONAL JOURNAL OF NANO DIMENSION, vol.9, no.1, pp.15-23, 2018 (ESCI)
7. **Development of an ultra-sensitive method using nafion and multi-walled carbon nanotube coated**

### **glassy carbon electrode for atenolol determination**

Çelik Kazıcı H.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.7, pp.1287-1292, 2018 (ESCI)

8. **The Ultra-sensitive method development using Nafion and multi-walled carbon nanotube coated glassy carbon electrode for atenolol determination**

Çelik Kazıcı H.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, pp.1-9, 2018 (Peer-Reviewed Journal)

9. **An investigation on dissolution kinetics of pre-heated ulexite**

Çelik Kazıcı H., Gür A.

Materials Science Research India, vol.4, pp.57-63, 2007 (Peer-Reviewed Journal)

## **Books & Book Chapters**

1. **ENANTIOMERIC SEPARATION OF BETA BLOCKER DRUGS**

Yıldırım A., Çelik Kazıcı H., Demir Kıvrak H., Aktaş N.

in: Advances in Engineering Sciences, Gülten Başıyigit Kılıç, Editor, Platanus Publishing, Ankara, pp.309-331, 2023

2. **INVESTIGATION OF COLOR REMOVAL CONDITIONS IN METHYL ORANGE AND ERIOCHROME BLACK T USING A PHASE EXTRACTION COLUMN SYSTEM VIA AGARICUS CAMPESTRIS/AMBERLITE XAD-4 BIOCOMPOSITE MATERIAL**

YÖNTEN V., ÇELİK KAZICI H., KIVANÇ M. R., AKÇAY M. E.

in: Developments in Science: Physics, Chemistry, Biology, Prof. Dr. Sibel DEMİR KANMAZALP, Editor, Yaz Yayınları, Afyonkarahisar, pp.202-222, 2023

3.  **$\gamma$ -Al<sub>2</sub>O<sub>3</sub>-SUPPORTED MATERIALS FOR CATALYZING THE HYDROLYTIC DEHYDROGENATION OF AMMONIA BORANE**

İzgi M. S., Baytar O., Yayla M., Çelik Kazıcı H., Şahin Ö.

in: CURRENT STUDIES AT POSITIVE SCIENCES, Dr. Mehriban EMEK, Dr. E. İlhan ŞAHİN, Editor, İksad Publishing House, Ankara, pp.87-112, 2020

4. **Yakıt Pili Katalizörlerin Sentezi**

Çelik Kazıcı H., Ulaş B., Demir Kıvrak H.

in: Yakıt Pili Katalizörleri, KIVRAK H., Editor, Gece Akademi, Ankara, pp.135-150, 2019

5. **Bölüm 3: Yakıt Pili Katalizörlerinin Sentezi ve Karakterizasyonu**

Çelik Kazıcı H., Ulaş B., Demir Kıvrak H.

in: Yakıt Pili Katalizörleri, Demir Kıvrak H., Editor, Gece Kitaplığı, Ankara, pp.37-99, 2019

## **Refereed Congress / Symposium Publications in Proceedings**

1. **Modifiye Edilmiş Yüzey Baskılı Karbon Elektrotların Ketoprofen Ayrımında Kullanılması**

Yayla M., Yıldırım A., Çelik Kazıcı H., Demir Kıvrak H., Aktaş N.

EurasianBioChem 2022, Ankara, Turkey, 23 - 25 November 2022, pp.1570-1575

2. **Investigation of the structure and activities of nanocatalysts prepared with Pd-Ru and Co for the direct electrooxidation of NaBH<sub>4</sub>**

ÇELİK KAZICI H., Salman F., İZGİ M. S., Onat E.

Global Summit on Advanced Materials and Sustainable Energy, Van, Turkey, 03 October 2022

3. **Synthesis of different support nanocatalyzers and hydrogen peroxide sensor applications**

Salman F., ÇELİK KAZICI H., İZGİ M. S.

Global Summit on Advanced Materials and Sustainable Energy, Van, Turkey, 03 October 2022

4. **The Use of Surface - Printed Electrodes Modified with Carbon Derivatives in Racemic Drugs Separation**

Yayla M., yıldırım a., ÇELİK KAZICI H., DEMİR KIVRAK H., AKTAŞ N.

Global Summit on Advanced Materials and Sustainable Energy, Van, Turkey, 03 October 2022

5. **Synthesis of Sn doped Sb<sub>2</sub>O<sub>5</sub> particles and their optical and electrochemical properties**  
AKINAY Y., AKKUŞ İ. N., Salman F., ÇELİK KAZICI H.  
2nd Global Virtual Summit on Advances in Materials, Physics & Chemistry Science, England, 18 February 2021
6. **EFFECTS OF ACTIVATED CARBON SUPPORTED Pd Ru CATALYSTS ON HYDROGEN PRODUCTION**  
Muhtasım R., Salman F., Yayla M., Çelik Kazıcı H.  
ICENTE'20, Konya, Turkey, 19 - 21 November 2020, pp.91
7. **Carbon Derivative Supported Triple Metal Electro Sensor for Citric Acid Detection in Food Samples**  
Yayla M., Çelik Kazıcı H., Demir Kıvrak H.  
ICENTE'20, Konya, Turkey, 19 - 21 November 2020, pp.237-239
8. **Bimetalik Nanokatalizörlerin Sentezi ve Hidrojen Peroksit Sensör Uygulamaları**  
Yıldırım A., Çelik Kazıcı H., Ulaş B., Demir Kıvrak H., Aktaş N.  
13. Kimya Mühendisliği Kongresi, Van, Turkey, 03 September 2019 - 06 September 2018, pp.1
9. **Amonyak-Boranın Heterojen Fazda Katalitik Hidrolizi**  
Yıldız F., Salman F., İZGİ M. S., Şahin Ö., Çelik Kazıcı H.  
13. Kimya Mühendisliği Kongresi, Van, Turkey, 03 September 2019 - 06 September 2018, pp.1
10. **Investigation of Antibacterial and Antifungal Properties of Ag / C containing Nanoparticles**  
Çelik Kazıcı H., Yönten V., Kıvanç M. R., Ertaş M.  
International Conference on Vocational and Technical Science, Batum, Georgia, 5 - 07 August 2019, pp.14
11. **CeO<sub>2</sub> supported multimetallic nano materials as an efficient catalyst for hydrogen generation from the hydrolysis of NaBH<sub>4</sub>**  
İZGİ M. S., BAYTAR O., Şahin Ö., Çelik Kazıcı H.  
IHTEC 2019, Edirne, Turkey, 20 - 22 June 2019, pp.5
12. **Synthesis and characterization of nanostructured Co-Fe-B using different support materials for ammonia borane hydrolysis**  
Çelik Kazıcı H., İZGİ M. S., Şahin Ö.  
IHTEC 2019, Edirne, Turkey, 20 - 22 June 2019, pp.1
13. **Preparation of GO based Co-Cu-B and investigation of hydrogen production performance**  
ŞAHİN Ö., Yayla M., Çelik Kazıcı H., İZGİ M. S.  
IHTEC 2019, Antalya, Turkey, 20 - 22 June 2019, pp.6
14. **Eupergit CM supported Co-Mn-B nanoparticles as catalyst for the H<sub>2</sub> production from NH<sub>3</sub>BH<sub>3</sub> methanolysis**  
Çelik Kazıcı H., İZGİ M. S., Şahin Ö.  
IHTEC 2019, Edirne, Turkey, 20 - 22 June 2019, pp.3
15. **Al<sub>2</sub>O<sub>3</sub>-supported nanoparticles for catalyzing the hydrolysis of ammonia borane**  
İZGİ M. S., BAYTAR O., Yayla M., Çelik Kazıcı H., ŞAHİN Ö.  
IHTEC 2019, Edirne, Turkey, 20 - 22 June 2019, pp.7
16. **A highly selective non-enzymatic H<sub>2</sub>O<sub>2</sub> sensor supported on Eupergit CM decorated with PdMoAg nanoparticles**  
Çelik Kazıcı H., Salman F., İZGİ M. S., Şahin Ö.  
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17. **Pd@Sn Vulcan nanomaterialinin gıdalarda koruyucu madde tayininde kullanılması**  
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18. **SYNTHESIS OF MULTI-METAL NANO CATALYSTS AND THEIR APPLICATIONS**  
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19. **DEVELOPMENT OF MULTIMETALLIC NANO CATALYST AND FOR HYDROGEN PRODUCTION FROM AMMONIA BORANE IN LIQUID PHASE**  
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20. **Hydrogen Peroxide Sensor Application of Ti and TiNi Catalysts**  
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23. **The effect of sensor properties of multi-metal electrocatalysts on food**  
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24. **Determination of Kinetic Parameters of Enzymatic Biosensors, Prepared for Glucose Determination**  
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25. **Highly active non-enzymatic hydrogen peroxide and glucose detection**  
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30. **Synthesis Of The PdAgCo/CNT For Direct Formic Acid Fuel Cell**  
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33. **Method Validation of Bimetallic Nanomaterials Sensor Activities**  
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34. **NiPd/C Metal Nanokatalizörlerin Sentezi ve Karakterizasyonu**  
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36. **Synthesis and characterization of microwave assisted Pd nanoparticles as hydrogen peroxide sensor**  
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37. **Electrochemical study of Pd-Au/Au-Pd@C core/shell nanomaterials for non-enzymatic hydrogen peroxide sensor**  
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39. **M-Pd@C core/shell nanomateriallerinin hidrojen peroksit sensör geliştirilmesinde kullanımı**  
Yayla M., Çelik Kazıcı H., Demir Kıvrak H.  
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40. **Sulu Ortamda Çevreci Gümüş Nano-Parçacıklarının Sentezlenmesi**  
Yıldırım A., Çelik Kazıcı H., Kıvrak H.  
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41. **Pd ve Pd-Ni metal katalizörlerinin sentezi, karakterizasyonu ve uygulaması**  
Salman F., Çelik Kazıcı H., Kıvrak H.  
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42. **Beta-blokerların saptanması için yeni bir elektrokimyasal sensör geliştirilmesi**  
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NİŞO g., Salman F., Çelik Kazıcı H., Kıvrak H.  
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4. Ulusal Uygulamalı Elektrokimya Çalıştayı, Manisa, Turkey, 24 - 27 May 2016
45. **Synthesis and electrochemical study of M-Pd@C core/shell nanomaterials for non-enzymatic hydrogen peroxide sensor**  
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46. **Effect of cofactor regeneration on the production of chiral aromatic alcohol**  
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47. **Kinetic studies for production of (S)-1-Phenyl-Ethanol by asymmetric reduction using freeze-dried carrot as the biocatalyst**  
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1 st.Green Chemistry and Sustainable Technologies GCSTI, İzmir, Turkey, 30 September - 03 October 2015, pp.1
48. **Use of the Immobilized Lyophilized Carrot as Biocatalysts for Producing Enantiomerically Pure Secondary Alcohol**  
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4th Annual International Conference on Chemistry, Chemical Engineering and Chemical Process (CCECP 2015), Singapur, Singapore, 26 - 27 July 2015, pp.1
49. **Carbon Supported Pd-Ni Nanoparticles For Non-enzymatic Hydrogen Peroxide Sensor**  
Salman F., Alal O., Kıvrak H., Çelik Kazıcı H.  
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50. **Use of Pd and Pd-Au metal catalysts as hydrogen peroxide sensor**  
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51. **Pd ve Pd-Au Metal Katalizörlerinin Hidrojen Peroksit Sensörü Olarak Kullanılması**  
Alal O., Kıvrak H., Çelik Kazıcı H., Şahin Ö.  
3. Ulusal Kimya Mühendisliği Öğrenci Kongresi, İstanbul, Turkey, 2 - 04 May 2015, pp.1-2
52. **Facile Rapid Synthesis of Microwave Assisted Pd Nanoparticles for Non-Enzymatic Hydrogen Peroxide Sensor**  
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1st International Conference on Organic Electronic Material Technologies, Elazığ, Turkey, 25 - 28 March 2015, pp.1-2
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1st International Conference On Organic Electronic Material Technologies, Elazığ, Turkey, 25 - 28 March 2015, vol.-

## Academic and Administrative Experience

2021 - Continues	<b>BAP Coordinator</b>	Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü
2015 - Continues	<b>Academic Board Member</b>	Van Yüzüncü Yil University, Kimya Mühendisliği Bölümü

## Advising Theses

Çelik Kazıcı H., Modifiye edilmiş yüzey baskılı elektrotlar ile gıda katkı maddelerinin elektrokimyasal davranışlarının incelenmesi, Postgraduate, M.YAYLA(Student), 2019

Çelik Kazıcı H., HİDROJEN ELDESİ İÇİN UYGUN KATALİZÖR SENTEZ VE KARAKTERİZASYONU, Postgraduate, F.YILDIZ(Student), 2019

Çelik Kazıcı H., Demir Kıvrak H., Karbon nanotüp destekli Pt, Bi ve Ru monometalik katalizörlerin nano tasarım ile sentezi, karakterizasyonu ve alkol yakıt pili uygulamaları, Postgraduate, N.ALBOUNİ(Student), 2019

Çelik Kazıcı H., NANOKATALİZÖRLERİN SENTEZİ KARAKTERİZASYONU VE SENSÖR ETKİSİNİN ELEKTROKİMYASAL İNCELENMESİ, Postgraduate, F.SALMAN(Student), 2019

Çelik Kazıcı H., Reducing sulfur from crude oil and petroleum products by using ionic aqueous solution, Postgraduate, A.JAWHAR(Student), 2018

### Scientific Refereeing

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Van Yüzüncü Yil University, Turkey, March 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Van Yüzüncü Yil University, Turkey, March 2020

International Journal of Hydrogen Energy, SCI Journal, February 2020

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, January 2020

International Journal of Global Warming, SCI Journal, November 2018

TALANTA, SCI Journal, August 2018

Bioengineering and Bioscience, Other Indexed Journal, April 2018

Journal of Alloys and Compounds, SCI Journal, October 2017

Bioprocess and Bioengineering, Other Indexed Journal, January 2017

### Scientific Consultations

Van KOSGEB, Scientific Consultancy, Van Yüzüncü Yil University, Mühendislik Ve Mimarlık Fakültesi, Kimya Mühendisliği, Turkey, 2020 - Continues

### Scientific Research / Working Group Memberships

Nanotechnology Sensors, Energy and medicine araştırma grubu, YÜZÜNCÜ YIL ÜNİVERSİTESİ, Turkey, <https://www.facebook.com/search/top/?q=nanotech-sem%20research%20group>, 2015 - Continues

### Metrics

Publication: 99

Citation (WoS): 182

Citation (Scopus): 426

H-Index (WoS): 8

H-Index (Scopus): 13

### Congress and Symposium Activities

4. Ulusal Uygulamalı Elektrokimya Çalıştayı, Attendee, Manisa, Turkey, 2016

### Research Areas

Chemical Engineering and Technology, Biotechnology, Biochemical Reaction Engineering, Enzyme Engineering, Chemical Technologies, Electrochemical Processes, Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Chemistry, Biochemistry, Biotransformations, Enzyme Kinetics, Natural Sciences, Engineering and

Technology