



HİLAL DEMİR KIVRAK

PROF.

Email : hilaldemir.kivrak@ogu.edu.tr

International Researcher IDs

ScholarID: HDyPX4AAAAJ

ORCID: 0000-0001-8001-7854

Publons / Web Of Science ResearcherID: HJI-7095-2023

ScopusID: 57220072283

Yoksis Researcher ID: 14881



Learning Knowledge

Postgraduate 2019 - 2022	Van Yüzüncü Yil University, Sosyal Bilimler Enstitüsü, Felsefe (YI) (Tezli) (Muş Alparslan Ün.Ortak), Turkey
Post Doctorate 2011 - 2012	Technische Universitaet Darmstadt, Chemieabteilung, Anorganische Chemie (YÖK Doktora Sonrası Araştırma Bursu), Germany
Doctorate 2003 - 2010	Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey
Doctorate 2008 - 2009	Iowa State University, Engineering Faculty, Chemical and Biological Department (TÜBİTAK 2214 Doktora Araştırma Bursu), United States Of America
Undergraduate 1998 - 2002	Eskişehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, Turkey

Foreign Languages

English, C1 Advanced

French, B1 Intermediate

Dissertations

Postgraduate, Platon ve Aristoteles'te değişme ve hareket üzerine, Van Yüzüncü Yil University, Sosyal Bilimler Enstitüsü, 2022

Doctorate, Synthesis and characterization of ethanol electro-oxidation catalysts, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, 2010

Academic Titles / Tasks

Professor 2021 - Continues	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
Associate Professor 2021 - 2021	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
Associate Professor 2016 - 2021	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
Associate Professor 2017 - 2017	Université Paul Sabatier: Toulouse III, CNRS, Laboratoire de Synthèse et Physico-Chimie des Molécules d'Intérêt Biologique
Assistant Professor 2013 - 2016	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
Research Assistant PhD 2011 - 2013	Selcuk University, Faculty Of Engineering, Department Of Chemistry Engineering
Associate Professor 2011 - 2012	Technische Universitaet Darmstadt, Technische Universitaet Darmstadt, Chemieabteilung, Anorganische Chemie
Research Assistant 2002 - 2011	Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering
Researcher 2009 - 2009	Technische Universitaet Darmstadt, Chemieabteilung, Anorganische Chemie
Researcher 2008 - 2009	Iowa State University, Faculty of Engineering, Chemical and Biological Engineering

Supported Projects

- DEMİR KIVRAK H., ERDOĞAN A., YILDIZ D., Project Supported by Higher Education Institutions, Sodyum Borhidrür Metanolizinden Yüksek Verimli Hidrojen Üretimi için Volkanik Kayalardan ve Geri Dönüştürülmüş PET Malzemelerden Yapılan Yeni Kompozitlerin Kullanılması, 2024 - Continues
- DEMİR KIVRAK H., KIVRAK A., YILDIZ D., AKTAŞ N., NAJRI B. A. A., Project Supported by Higher Education Institutions, Rutenyum ve Kobalt içeren Zeolit/Aktif Karbon Kompozitlerinin Sodyum Borhidrür Metanolizinden Hidrojen Üretimi İçin Katalizör Olarak Sentezi ve Karakterizasyonu, 2024 - Continues
- DEMİR KIVRAK H., ÇAĞLAR A., ABBAS M. J. A., Project Supported by Higher Education Institutions, CNT destekli Cu Nb ve Fe bazlı Katalizörlerin NaBH₄ Metanolizinden Hidrojen Üretimi için Geliştirilmesi, 2024 - Continues
- DEMİR KIVRAK H., KAYA Ş., SAKA C., Project Supported by Higher Education Institutions, Yeni Nesil Katalizörlerin Hazırlanması ve Metanoliz ile Hidrojen Üretimini Araştırılması, 2023 - Continues
- Kıvrak A., Demir Kıvrak H., Öztürk N., Çalışkan F., Other International Funding Programs, Chemical Risk Officer Training for Turkish Universities, 2024 - 2025
- Yıldız D., Kaya Ş., Korkmaz N., Demir Kıvrak H., Çağlar A., TÜBİTAK Project, Hidrazin Borandan Hidrojen Üretiminde

Aktif Karbon Destekli Çekirdek@Kabuk Metal Katalizörlerin Kullanımı, 2024 - 2025

7. Özok Arıcı Ö., Kıvrak A., Çağlar A., Demir Kıvrak H., Kaya Ş., TUBITAK Project, TÜBİTAK 1002 Pirazol Temelli Organik Yakıt Pili Anot Katalizörlerinin Tasarımı ve Elektrokimyasal Özellikleriyakıt pili, 2024 - 2025
8. Demir Kıvrak H., Ecer Ü., TUBITAK Project, TÜBİTAK 2218 Doğrudan hidrazin yakıt pilleri için MIL-68(Al) destekli PdNiFe anot katalizörlerinin tasarımı, 2023 - 2025
9. Kaya Ş., Demir Kıvrak H., Kıvrak A., Ulaş B., Özok Arıcı Ö., Project Supported by Higher Education Institutions, Organik Temelli Katalizörlerin Alkali Yakıt Pili Performanslarının Farklı Membranlar Üzerinde İncelenmesi, 2023 - 2024
10. YILDIZ D., DEMİR KIVRAK H., AKTAŞ N., ULAŞ B., SAKA C., ÇAĞLAR A., Project Supported by Higher Education Institutions, Hidrazin Borandan Hidrojen Üretiminde Biyo çarların Katalizör Olarak Kullanımı, 2023 - 2024
11. DEMİR KIVRAK H., YAZAR AYDOĞAN S., ÇAĞLAR A., DEMİR B., Project Supported by Higher Education Institutions, Yeni nesil polimer kompozitlerin hazırlanması ve süperkapasitör uygulamaları, 2023 - 2024
12. KIVRAK A., KARA A., LÖKOĞLU G., KAVAK E., NAJRI B. A. A., DEMİR KIVRAK H., KAYA Ş., NAJRI B. A. A., Project Supported by Higher Education Institutions, SİYANO GRUBU İÇEREN YENİ BENZOFURAN TÜREVLERİNİN SENTEZİ HİDRAZİN VE GLİKOZ YAKIT HÜCRESİ PERFORMANSLARININ BULUNMASI, 2023 - 2024
13. Kıvrak A., Demir Kıvrak H., Erasmus Project, ERASMUS Digital Green, 2022 - 2024
14. YILDIZ D., Çağlar A., DEMİR KIVRAK H., KAYA Ş., Project Supported by Higher Education Institutions, Metal Destekli Zeolit Katalizörler Üzerinde Biyokütle Pirolozinin Araştırılması, 2022 - 2024
15. Demir Kıvrak H., Çoban F., TUBITAK Project, TÜBİTAK 2218: Çapraz Bağlı Yeni Nesil 2,5-ditiyeniil Pirool İletken Polimer Türevlerinin Süperkapasitör Uygulamaları, 2022 - 2024
16. Demir Kıvrak H., Kavak E., TUBITAK Project, TÜBİTAK 2218: Akciğer kanseri antijeni CYFRA21-1'in tayini için yeni nesil benzotiyofen temelli elektrokimyasal DNA biyosensörlerin geliştirilmesi, 2022 - 2024
17. ANIK M., DEMİR KIVRAK H., YÜKSEL R., COŞKUN Ş., LÖKÇÜ E., ÖZDEN R. C., Project Supported by Higher Education Institutions, Lityum İyon Oksijen Bataryanın FotoAkım Yardımlı Şarjı İçin Etkin FotoElektrotların Geliştirilmesi, 2022 - 2024
18. Demir Kıvrak H., Atabani A., Atelge R., Avcı Hansu T., Akansu S. O., Ünalın S., Project Supported by Higher Education Institutions, Development of a small-scale SCG-based biorefinery to produce biofuels and value-added products: pathways towards green environment and circular bioeconomy, 2022 - 2024
19. DEMİR KIVRAK H., YAZAR AYDOĞAN S., ALOVN D., Project Supported by Higher Education Institutions, Yeni Nesil PoliNisopropylacrylamid ve Poliakrilikasit Temelli Kompozit Elektrotların Hazırlanması ve Süperkapasitör Uygulamaları, 2023 - 2023
20. Demir Kıvrak H., Kıvrak A., TUBITAK Project, TÜBİTAK 1002 122Z061: Benzofuran Türevlerinin Hidrazin Elektrooksidasyon Uygulamaları ve Yakıt Pili Performansları (01/04/2022-DEVAM EDİYOR), 2022 - 2023
21. DEMİR KIVRAK H., KAYA Ş., ÇAĞLAR A., ULAŞ B., Project Supported by Higher Education Institutions, Titanyum dioksit nanotüp destekli CdTe enzimatik glikoz yakıt pili anot katalizörlerin performansının tayini ve cevap yüzey yöntemi ile optimizasyonu, 2022 - 2023
22. Demir Kıvrak H., Aktaş N., Selçuk K., Project Supported by Higher Education Institutions, VAN YYU BAP: Yeni polimer temelli akıllı malzemelerin sentezi, karakterizasyonu ve bu malzemeler ile amino asitlerin elektrokimyasal tayininde kullanılması, 2022 - 2023
23. Demir Kıvrak H., Özok Ö., TUBITAK Project, TÜBİTAK 2218 118C546: Yeni Aldehit Fonksiyonlu Pirazollerin Sentezi ve Elektrokimyasal Sensör Uygulamaları (10.11.2021-DEVAM EDİYOR), 2021 - 2023
24. Demir Kıvrak H., Atelge R., Avcı Hansu T., Abdulaziz Atabani A., Project Supported by Higher Education Institutions, Hayvan gübresi ve kahve telvesinden yenilenebilir biyo-yakıt olarak biyogazın üretim potansiyelinin araştırılması, 2021 - 2023
25. KIVRAK A., DEMİR KIVRAK H., KAVAK E., KAYA Ş., ÖZOK ARICI Ö., Project Supported by Higher Education Institutions, 3-İyodobenzotiyofen Türevlerinin Hidrazin Elektrooksidasyon Uygulamaları ve Yakıt Pili Performansları, 2021 - 2022
26. Demir Kıvrak H., Avcı Hansu T., Atelge R., Atabani A., Project Supported by Higher Education Institutions, YENİ NESİL AKTİF KARBON TEMELLİ HETEROJEN BİYODİZEL KATALİZÖRLERİNİN SENTEZİ, KARAKTERİZASYONU VE ATIK YAĞLARDAN BİYODİZEL ÜRETİM UYGULAMALARI, 2021 - 2022
27. Kıvrak A., Demir Kıvrak H., TUBITAK Project, Yeni Nesil Donör-Akseptör (D-A) Tipi İndol Türevlerinin Sentezi Ve

Elektrokimyasal Davranımlar, 2021 - 2022

28. Demir Kıvrak H., Aktaş N., Project Supported by Higher Education Institutions, Galyum, Cobalt ve Gümüş ile modifiye edilmiş Pd Katalizörlerin Sentezi, Karakterizasyonu ve formik asit elektrooksitlenmesi aktivitesinin incelenmesi , 2021 - 2022
29. Demir Kıvrak H., Sahin O. G., Project Supported by Higher Education Institutions, CNT Destekli Pt Temelli Doğrudan Bor Hidrür Yakıt Hücreleri Katalizörlerinin Hazırlanması ve Karakterizasyonu, 2020 - 2022
30. Demir Kıvrak H., Sahin O. G., Project Supported by Higher Education Institutions, CVD Tekniğiyle hazırlanmış Grafen-Metal Nanokompozitlerin Glikoz elektrooksitlenme aktivitesinin incelenmesi, 2019 - 2021
31. Demir Kıvrak H., Project Supported by Higher Education Institutions, Co Ve Ag Metali çekirdeği üzerine Pd kapaklandırması ile çok metalli çekirdek kabuk katalizörlerin nanotasarım ile sentezi ve karakterizasyonu, 2018 - 2021
32. Demir Kıvrak H., Çelik Kazıcı H., Project Supported by Higher Education Institutions, Grafen türevleri ile modifiye edilmiş yüzey baskılı elektrotların rasemik ilaçları ayırt etme özelliklerinin incelenmesi, 2018 - 2021
33. Demir Kıvrak H., Aktaş N., Project Supported by Higher Education Institutions, Kuantum Nokta yapıların sentezi ve elektrokimyasal glukoz elektrooksitlenme uygulamaları, 2019 - 2020
34. Demir Kıvrak H., Hansu T. A., Sahin O., Project Supported by Higher Education Institutions, Ru Temelli Geliştirilen Bazı katalizörlerin NaBH_4 'ün hidrolizinde ve elektrooksidasyonla katalitik aktivitesinin belirlenmesi, 2018 - 2020
35. Kıvrak A., Demir Kıvrak H., Other International Funding Programs, Improving Science knowledge for foreign students, 2019 - 2019
36. Demir Kıvrak H., Şahin O. G., TÜBİTAK - AB COST Project, Cvd Tekniğiyle Katılanmış Grafen-Metal Nanokompozitlerin Sentezi, Karakterizasyonu Ve Glikoz Sensör Duyarlılıklarının İncelenmesi, 2017 - 2019
37. Demir Kıvrak H., Sahin O. G., Project Supported by Higher Education Institutions, Hidrojen peroksit tayini için yeni sensörlerin tasarlanması ve karakterizasyonu, 2016 - 2019
38. Demir Kıvrak H., Sahin O. G., Project Supported by Higher Education Institutions, PdCo/CNT Alaşım Katalizörlerinin Sentezi, Karakterizasyonu ve Yakıt Pili Uygulamaları, 2016 - 2019
39. Demir Kıvrak H., TUBITAK Project, TÜBİTAK 2223 Bilimsel Etkinlik Düzenleme-13. ulusal Kimya Mühendisliği Kongresi, 2018 - 2018
40. Demir Kıvrak H., Project Supported by Higher Education Institutions, 13. Ulusal Kimya Mühendisliği Kongresi, 2018 - 2018
41. Demir Kıvrak H., Kıvrak A., Project Supported by Higher Education Institutions, 3-Alkinil-2 Tiyofen-2 il benzo tiyofen türevlerinin sentezi ve elektrokimyasal özellikleri, 2017 - 2018
42. Demir Kıvrak H., Project Supported by Higher Education Institutions, Formik asit elektroyükseltgenmesi için hazırlanan Pd temelli katalizörlerin sentezi ve karakterizasyonu, 2017 - 2018
43. Demir Kıvrak H., Zahmakıran M., Project Supported by Higher Education Institutions, ALD Tekniğiyle Külçeleşme ve Sızmaya Karşı Dayanıklı Katı Destekli Metal Nanokatalizörlerinin Geliştirilmesi ve Formik Asitten Hidrojen Üretiminde Kullanılması, 2017 - 2017
44. Demir Kıvrak H., Project Supported by Higher Education Institutions, Formik Asit Elektroyükseltgenmesi İçin Hazırlanan Karbon Nanotüp Destekli CoAuPd Nanokatalizörlerinin Sentezi ve Karakterizasyonu, 2016 - 2017
45. Kıvrak A., Demir Kıvrak H., Project Supported by Higher Education Institutions, PdAg Formik Asit Yakıt Pili Anot Katalizörlerinin Sentezi ve Karakterizasyonu, 2016 - 2017
46. Demir Kıvrak H., Zahmakıran M., TÜBİTAK - AB COST Project, ALD Tekniğiyle Külçeleşme ve Sızmaya Karşı Dayanıklı Katı Destekli Metal Nanokatalizörlerinin Geliştirilmesi ve Formik Asitten Hidrojen Üretiminde Kullanılması, 2015 - 2017
47. Demir Kıvrak H., Mert S. O., Şahin O. G., Yurtcan A. B., TUBITAK Project, Geçiş Metali Çekirdeği Üzerinde Au Ti V Mn Fe Co Ni Zn Pd Kabaklandırılması ile Çok Metalli Çekirdek Kabuk Katalizörlerinin Nano Tasarım ile Sentezi Karakterizasyonu ve DFAYP Uygulamaları, 2014 - 2017
48. Demir Kıvrak H., Çağlar A., TUBITAK Project, Karbon Nanotüp Destekli Formik Asit Yakıt Pili Pd, PdAu ve PdAg anot Katalizörlerinin Mikrodalga Sentez Yöntemi ile Sentezlenmesi, Karakterizasyonu ve Yakıt Pili Uygulamaları, 2015 - 2016
49. Demir Kıvrak H., Kıvrak A., TUBITAK Project, Yüksek Aktiviteye Sahip Formik Asit Yakıt Pili Anot Katalizörü Pt Pd Au Çekirdek Kabuk Katalizörlerinin Mikrodalga Yöntemi ile Üretilmesi, 2014 - 2016

50. Demir Kıvrak H., Sahin O. G., Project Supported by Higher Education Institutions, Fotokatalitik hidrojen üretimi için mezogözenekli silika yapılarında TiO₂ sentezi ve Karakterizasyonu, 2014 - 2015
51. Kıvrak A., Demir Kıvrak H., Project Supported by Higher Education Institutions, Çekirdek Kabuk yapısına sahip Metanol Elektro oksitleme Pt Ru Nano Katalizörlerinin Sentezi ve Geliştirilmesi, 2014 - 2015
52. Demir Kıvrak H., Şahin O. G., Project Supported by Higher Education Institutions, Doğrudan Etanol Yakıt Pilleri için Karbon Destekli Üçlü Metal Nanoparçacıklı Anot Katalizörlerin Hazırlanması ve Karakterizasyonu, 2013 - 2015
53. Demir Kıvrak H., Sahin O., Project Supported by Higher Education Institutions, SELÇUK ÜNİVERSİTESİ BAP Nanoyapılı Pt temelli iki metalli Doğrudan Metanol Yakıt Pili Katalizörlerinin Sentezi ve Geliştirilmesi, Bütçe: 11475 € (28000 TL), 2011 - 2013

Awards

1. Demir Kıvrak H., YÖK ÜSTÜN BAŞARI ÖDÜLLERİ FEN VE MÜHENDİSLİK BİLİMLERİ YILIN DOKTORA TEZİ DANIŞMAN ÖDÜLÜ, Yök, October 2022
2. Demir Kıvrak H., FEN VE MÜHENDİSLİK ALANI BİLİMSEL BAŞARI ÖDÜLÜ, Eskişehir Osmangazi Üniversitesi , April 2022
3. Demir Kıvrak H., Unesco-Loreal Bilim Kadını Ödülü 2017, Unesco-Loreal, May 2017

Scholarships

YÖK doktora sonrası Araştırma bursu, YOK, 2011 - 2012
Türkiye Almanya işbirliği projesi, TUBITAK, 2009 - 2009
2214, TUBITAK, 2008 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

1. **The development of titanium dioxide nanotube-supported CdTe catalysts for photocatalytic enzymatic glucose fuel cell and response surface methodology optimization**
Caglar A., Tuncbora Pelen Y., Ulaş B., Zahmakiran M., Demir Kıvrak H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.456, 2024 (SCI-Expanded)
2. **Enhanced performance of CNT supported bimetallic PdM (M=Cr, Ta, Bi, Hf) catalysts as anode electrode for ammonia borane electrooxidation**
Kaya Ş., Caglar A., Demir Kıvrak H.
Process Safety and Environmental Protection, vol.191, pp.1896-1904, 2024 (SCI-Expanded)
3. **Investigation of a novel Defatted Spent Coffee Ground (DSCG)-supported Ni catalyst for fuel cell and supercapacitor applications**
Hansu T. A., Al-Samarrae R. R., Atelge M. R., Kaya M., Demir Kıvrak H., Bogrekci I., Yıldız Y. Ş., Akansu S. O., Ünalın S., Atabani A. E.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.191, pp.760-768, 2024 (SCI-Expanded)
4. **The Effect of Ru/PMC Hydrogel Composite for Water-Splitting Applications**
Caglar A., Zahmakiran M., Demir Kıvrak H.
ELECTROCATALYSIS, 2024 (SCI-Expanded)
5. **Enhanced Hydrazine Electrooxidation Activities on Novel Benzofused Tricyclic Heterocyclic Derivatives**
Özok Arıcı Ö., Mancuso R., Gabriele B., Kıvrak A., Demir Kıvrak H.
ACS OMEGA, no.39, pp.40644-40649, 2024 (SCI-Expanded)
6. **Enhanced catalytic performance of Pd/PMAc-g-CNT composite for water splitting and supercapacitor applications**

Hansu T. A., Kaya Ş., Çağlar A., Akdemir M., Demir Kıvrak H., Orak C., Horoz S., Kaya M.
Ionics, vol.30, no.9, pp.5513-5524, 2024 (SCI-Expanded)

7. **Investigation of electrooxidation and methanolysis of sodium borohydride on activated carbon supported Co catalysts from poplar sawdust**
Çağlar A., Kaya Ş., Saka C., Yıldız D., Demir Kıvrak H.
International Journal of Hydrogen Energy, vol.75, pp.171-178, 2024 (SCI-Expanded)
8. **Synthesis and Characterization of Polymer Particles as Metal-Free Catalysts for Electrooxidation and Methanolysis of Sodium Borohydride**
Gokkus K., Kaya Ş., Yıldız D., Saka C., Gür M., Bütün V., Demir Kıvrak H.
ChemistrySelect, vol.9, no.26, 2024 (SCI-Expanded)
9. **Design of highly effective organic catalyst for hydrazine electrooxidation: Iodobenzo[b]furan derivatives**
Najri B. A., Kaya Ş., Kavak E., Kıvrak A., Demir Kıvrak H.
Process Safety and Environmental Protection, vol.187, pp.792-798, 2024 (SCI-Expanded)
10. **Hydrazine electrooxidation performance of cyano-substituted indole derivatives as organic anode catalyst**
Çalış Karatekin H., Ulaş B., Yılmaz Y., Demir Kıvrak H., Kıvrak A.
Process Safety and Environmental Protection, vol.186, pp.1410-1418, 2024 (SCI-Expanded)
11. **Exploring the Triple Applications of Ag/PMAC-g-CNT Nanocomposites in Enhancing HER, OER and Supercapacitor Performance**
Kaya Ş., Çağlar A., Akdemir M., Demir Kıvrak H., Horoz S., Kaya M.
Waste and Biomass Valorization, vol.15, no.5, pp.2781-2792, 2024 (SCI-Expanded)
12. **Highly active polyethylene glycol grafted cellulose supported Pd nanoparticles for glucose electrooxidation**
Ulaş B., Yılmaz Y., Gök Ö., Demir Kıvrak H.
Process Safety and Environmental Protection, vol.185, pp.772-781, 2024 (SCI-Expanded)
13. **The synthesis and characterization of carbon nanotube-supported CuBi catalyst for H₂ production from NaBH₄ methanolysis**
Abbas M. J. A., Çağlar A., DEMİR KIVRAK H.
Process Safety and Environmental Protection, vol.185, pp.96-104, 2024 (SCI-Expanded)
14. **Activated carbon from waste fabrics as a catalyst for NaBH₄ methanolysis**
Yıldız D., Sariboğa E., Altınay B. S., Denктаş D., Şirin G., Altun Ş. N., Kaya Ş., Kıvrak H. D., Korkmaz N.
Process Safety and Environmental Protection, vol.185, pp.831-838, 2024 (SCI-Expanded)
15. **One-Step Electrochemical Sensing of CA-125 Using Onion Oil-Based Novel Organohydrogels as the Matrices**
Er O. F., DEMİR KIVRAK H., Alpaslan D., Dudu T. E.
ACS Omega, vol.9, no.16, pp.17919-17930, 2024 (SCI-Expanded)
16. **Highly efficient metal free aldehyde-functionalized indoles for direct glucose fuel cell anode catalyst**
Çalış Karatekin H., Ulaş B., Yılmaz Y., DEMİR KIVRAK H., KIVRAK A.
International Journal of Hydrogen Energy, vol.63, pp.635-644, 2024 (SCI-Expanded)
17. **Novel Ti₃C₂X₂ MXene supported BaMnO₃ nanoparticles as hydrazine electrooxidation catalysts**
Ulaş B., ÇETİN T., KAYA Ş., Akınay Y., DEMİR KIVRAK H.
International Journal of Hydrogen Energy, vol.58, pp.726-736, 2024 (SCI-Expanded)
18. **Methanolysis and electrooxidation of sodium borohydride on CNT supported Pd and Au bimetallic catalysts**
KAYA Ş., Çağlar A., Saka C., DEMİR KIVRAK H.
Journal of Electroanalytical Chemistry, vol.956, 2024 (SCI-Expanded)
19. **Production of carbon nanotube-supported metal (M = Ru, Pd, Pt) doped polyacrylic acid electrode materials and supercapacitor application**
Çağlar A., YAZAR AYDOĞAN S., Alovn D., DEMİR KIVRAK H.
Diamond and Related Materials, vol.143, 2024 (SCI-Expanded)

20. **Waste ceramic frit as novel catalyst triggering sodium borohydride methanolysis reaction**
Rüzgar D., YILDIZ D., KAYA Ş., Martinez J. v., Yeşilbursa G., DEMİR KIVRAK H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.56, pp.1038-1048, 2024 (SCI-Expanded)
21. **Development of Carbon Nanotube-Supported Metal (Mo, Ga, Bi)-Doped Polyacrylic Acid Electrodes for Supercapacitor Applications**
Alovn D., Yazar S., Caglar A., DEMİR KIVRAK H.
JOURNAL OF ELECTRONIC MATERIALS, vol.53, no.2, pp.991-1001, 2024 (SCI-Expanded)
22. **Selective Electrochemical Determination of L-Cysteine by a Cobalt Carbon Nanotube (CNT)-Modified Glassy Carbon Electrode (GCE)**
DEMİR KIVRAK H., Selcuk K., Caglar A., Aktaş N.
ANALYTICAL LETTERS, vol.57, no.17, pp.2798-2812, 2024 (SCI-Expanded)
23. **Synthesis and characterization of novel indole-cyanoacetic acid derivative and its applications**
YAMAN M., Mustafayev H., Arici Ö., Kavak E., Berber H., KIVRAK A., DEMİR KIVRAK H.
Journal of Solid State Electrochemistry, 2024 (SCI-Expanded)
24. **Enhanced Photocatalytic Hydrogen Production on Cd-, Te-, Se-, and S-Doped Titanium Dioxide Catalysts**
KAYA Ş., Saka C., Caglar A., Kaya M., DEMİR KIVRAK H.
Journal of Electronic Materials, vol.52, no.12, pp.8227-8236, 2023 (SCI-Expanded)
25. **Supported PbHfCd electrocatalysts over carbon-hydroxyapatite composite fabricated by precipitation and NaBH₄ reduction methods for glucose electrooxidation**
Ulaş B., Yılmaz Ürün Y., Koç S., DEMİR KIVRAK H.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.27, no.12, pp.3425-3437, 2023 (SCI-Expanded)
26. **The enhanced TiO₂-supported CdTe photocatalysts for photocatalytic hydrogen peroxide electrooxidation**
Caglar A., Gözde Sayin A., Aktaş N., DEMİR KIVRAK H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.445, 2023 (SCI-Expanded)
27. **High-efficiency catalyst for water splitting and supercapacitor applications: the promising role of Ni/PMAc-g-CNT**
Çağlar A., KAYA Ş., Hansu T. A., Akdemir M., DEMİR KIVRAK H., Horoz S., Kaya M.
IONICS, vol.29, no.10, pp.4147-4157, 2023 (SCI-Expanded)
28. **The advanced polymer composite coated fabrics as an anode electrode and photocatalytic glucose micro fuel cell design**
Caglar A., Sahan B., Gözde Sayin A., Tuncbora Pelen Y., Korkmaz N., DEMİR KIVRAK H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.444, 2023 (SCI-Expanded)
29. **Synthesis of 3-Iodoindoles and Their Glucose Electrooxidation Performance as an Anode Catalyst**
Çalış Karatekin H., Ulaş B., Yılmaz Y., DEMİR KIVRAK H., Kavak E., KIVRAK A.
Waste and Biomass Valorization, vol.14, no.10, pp.3285-3295, 2023 (SCI-Expanded)
30. **Enhanced hydrogen production via methanolysis and energy storage on novel poplar sawdust-based biomass-derived activated carbon catalyst**
KAYA Ş., Saka C., YILDIZ D., EROL S., Ulaş B., Demir I., DEMİR KIVRAK H.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.53, no.8, pp.1643-1655, 2023 (SCI-Expanded)
31. **A novel hazelnutt bagasse based activated carbon as sodium borohydride methanolysis and electrooxidation catalyst**
Saka C., Yıldız D., Kaya Ş., Caglar A., Elitok D., Yaylı E., Kaya M., Atelge R., Demir Kivrak H.
International Journal of Hydrogen Energy, vol.48, no.65, pp.25339-25353, 2023 (SCI-Expanded)
32. **Characterization and electrooxidation activity of ternary metal catalysts containing Au, Ga, and Ir for enhanced direct borohydride fuel cells**
Caglar A., KAYA Ş., DEMİR KIVRAK H.
Journal of Applied Electrochemistry, vol.53, no.6, pp.1207-1218, 2023 (SCI-Expanded)
33. **A novel carbohydrate antigen 125 electrochemical sensor based on sweet almond oil organo-hydrogels**

- Er O. F., Alpaslan D., Dudu T. E., Aktas N., Çelik S., DEMİR KIVRAK H.
Materials Chemistry and Physics, vol.298, 2023 (SCI-Expanded)
34. **Structural and photon/neutron attenuation features of PbNi/CNT nanocomposites: An experimental approach**
Yıldız Yorgun N., KAVAZ E., Ulaş B., Yılmaz Y., DEMİR KIVRAK H.
Progress in Nuclear Energy, vol.157, 2023 (SCI-Expanded)
35. **A study on supercapacitor electrode material from trigonal planar and (N→B) dative bond stabilized tetrahedral boron-containing compounds**
Kilic A., Soylemez R., Akdemir M., DEMİR KIVRAK H., KAYA M. D., Horoz S.
Journal of Materials Science: Materials in Electronics, vol.34, no.7, 2023 (SCI-Expanded)
36. **Carbon Nanotube Supported CdM(S, Se)/CdTe Anode Catalysts for Electrooxidation of Glucose in Alkaline Media**
Caglar A., DEMİR KIVRAK H., Aktaş N.
CHEMISTRYSELECT, vol.8, no.12, 2023 (SCI-Expanded)
37. **Hydroxyapatite supported PdxIn100-x as a novel electrocatalyst for high-efficiency glucose electrooxidation**
Ulaş B., Yılmaz Y., Koc S., DEMİR KIVRAK H.
International Journal of Hydrogen Energy, vol.48, no.18, pp.6798-6810, 2023 (SCI-Expanded)
38. **CNT-Supported Multi-Metallic (Ga@PdAgCo) Anode Catalysts: Synthesis, Characterization, and Glucose Electrooxidation Application**
KAYA Ş., Caglar A., DEMİR KIVRAK H.
JOURNAL OF ELECTRONIC MATERIALS, vol.52, no.2, pp.887-895, 2023 (SCI-Expanded)
39. **Boron-containing compounds as a new candidate for supercapacitor electrode: simplified synthesis and structural identification properties**
Akdemir M., DEMİR KIVRAK H., Kilic A., Beyazsakal L., KAYA M. D., Horoz S.
Desalination and Water Treatment, vol.304, pp.140-149, 2023 (SCI-Expanded)
40. **Photocatalytic glucose electrooxidation of titanium dioxide doped CdTe enhanced for a photocatalytic fuel cell**
Caglar A., Aktaş N., DEMİR KIVRAK H.
FUEL, vol.330, 2022 (SCI-Expanded)
41. **Catalytic electro-oxidation of hydrazine by thymol based-modified glassy carbon electrode**
Sharif K. H., DEMİR KIVRAK H., Ozok-Arici Ö., Caglar A., KIVRAK A.
FUEL, vol.330, 2022 (SCI-Expanded)
42. **Novel Cacao oil-based organo-hydrogels to detect carcinoma antigen 125 in serum medium; synthesis, characterization, and electrochemical measurements**
Er O. F., Alpaslan D., Dudu T. E., Aktas N., DEMİR KIVRAK H.
MATERIALS CHEMISTRY AND PHYSICS, vol.292, 2022 (SCI-Expanded)
43. **Development of a stability-indicating HPLC method for the simultaneous quantification of antazoline nitrate and naphazoline sulfate in a commercial ophthalmic formulation**
Salih M. A., Hama Aziz K. H., Aziz D. F., DEMİR KIVRAK H.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.45, no.17-20, pp.284-293, 2022 (SCI-Expanded)
44. **Novel 5-(2-phenylbenzo [b] thiophen-3-yl)furan-2-carbaldehyde based ovarian cancer carbohydrate antigen 125 electrochemical sensor**
Er O. F., DEMİR KIVRAK H., Ozok Ö., KIVRAK A.
MATERIALS CHEMISTRY AND PHYSICS, vol.291, 2022 (SCI-Expanded)
45. **Benzotiyofen@Pd as an efficient and stable catalyst for the electrocatalytic oxidation of hydrazine**
Kaya Ş., Ozok-Arici Ö., Kivrak A., Caglar A., Demir Kivrak H.
FUEL, vol.328, 2022 (SCI-Expanded)
46. **The role and effect of CdS-based TiO₂ photocatalysts enhanced with a wetness impregnation method for efficient photocatalytic glucose electrooxidation**

- Caglar A., Aktaş N., DEMİR KIVRAK H.
SURFACES AND INTERFACES, vol.33, 2022 (SCI-Expanded)
47. **Quantum size effect of cadmium-doped titanium dioxide photocatalysts towards methylene blue degradation and electrooxidation**
Kivrak H., Saleh D., Alpaslan D., Caglar A., Selcuk K., Dudu T. E., Aktaş N.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.10, pp.9507-9518, 2022 (SCI-Expanded)
48. **Promoting formic acid and ethylene glycol electrooxidation activity on Ga modified Pd based catalysts**
DEMİR KIVRAK H., Aktaş N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.83, pp.35265-35274, 2022 (SCI-Expanded)
49. **Development of Effective Bimetallic Electrocatalysts for Glucose Electrooxidation**
Ulaş B., Yilmaz Y., DEMİR KIVRAK H., ERÜNAL E.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.10, 2022 (SCI-Expanded)
50. **Novel gallium-based voltammetric sensor for sensitive detection of cysteine**
Selçuk K., Çağlar A., Aktaş N., DEMİR KIVRAK H.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.169, 2022 (SCI-Expanded)
51. **Carbon nanotube supported Ga@PdAgCo anode catalysts for hydrazine electrooxidation in alkaline media**
KAYA Ş., Caglar A., DEMİR KIVRAK H.
FUEL, vol.324, 2022 (SCI-Expanded)
52. **Glucose electrooxidation modelling studies on carbon nanotube supported Pd catalyst with response surface methodology and density functional theory**
KAYA Ş., Ulaş B., Duzenli D., ÖNAL I., Er O. F., Yilmaz Y., Tezsevin I., DEMİR KIVRAK H.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.168, 2022 (SCI-Expanded)
53. **The effect of different carbon-based CdTe alloys for efficient photocatalytic glucose electrooxidation**
Caglar A., Faruk Er O., Aktaş N., DEMİR KIVRAK H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.920, 2022 (SCI-Expanded)
54. **Fabrication of novel palladium-platinum based graphene/ITO electrodes and third metal addition effect through the glucose electrooxidation**
Caglar A., Avci Hansu T., Sahin O., DEMİR KIVRAK H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.918, 2022 (SCI-Expanded)
55. **Biomass-based metal-free catalyst as a promising supercapacitor electrode for energy storage**
KARAKAŞ D. E., Akdemir M., Imanova G. T., DEMİR KIVRAK H., Horoz S., KAYA M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.22, pp.18111-18123, 2022 (SCI-Expanded)
56. **The effect of titanium dioxide-supported CdSe photocatalysts enhanced for photocatalytic glucose electrooxidation under UV illumination**
Caglar A., DEMİR KIVRAK H., Aktaş N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.49, pp.21130-21145, 2022 (SCI-Expanded)
57. **Optimization of Electrode Preparation Conditions for Enhanced Glucose Electrooxidation on Pt/CNT by Response Surface Methodology**
KAYA Ş., Ulaş B., Er O. F., Yilmaz Y., DEMİR KIVRAK H.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.6, pp.2971-2981, 2022 (SCI-Expanded)
58. **Synthesis of Novel Artemisinin Derivatives and Their Electrochemical Properties**
Esen M., Kavak E., Ozok-Arici Ö., Ulas B., Demir Kivrak H., Kivrak A.
CHEMISTRYSELECT, vol.7, no.19, 2022 (SCI-Expanded)
59. **Comparative investigation of multi-walled carbon nanotube modified diesel fuel and biogas in dual fuel mode on combustion, performance, and emission characteristics**
Atelge M., Arslan E., Krisa D., Al-Samaraae R., Abut S., Ünalın S., Atabani A., Kahraman N., Akansu S. O., Kaya M., et al.
FUEL, vol.313, 2022 (SCI-Expanded)

60. **Glucose Electrooxidation Study on 3-iodo-2-(aryl/alkyl)benzo[b]thiophene Organic Catalyst**
Ozok-Arici Ö., KAYA Ş., Caglar A., DEMİR KIVRAK H., KIVRAK A.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.4, pp.1653-1662, 2022 (SCI-Expanded)
61. **Synthesis and characterization of 4-(2-(4-methoxyphenyl)benzo[b] thiophen-3-yl)benzaldehyde for carbohydrate antigen 125 electrochemical detection and molecular docking modeling**
DEMİR KIVRAK H., Er O. F., Ozok Ö., Çelik S., KIVRAK A.
MATERIALS CHEMISTRY AND PHYSICS, vol.281, 2022 (SCI-Expanded)
62. **Indole-based novel organic anode catalyst for glucose electrooxidation**
Hamad A. R., Çalış H., Çağlar A., Demir Kivrak H., Kivrak A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.2, pp.1659-1671, 2022 (SCI-Expanded)
63. **Hydrazine electrooxidation activities of novel carbon nanotube supported Tin modified Palladium nanocatalysts**
Er O. F., Cavak A., Aldemir A., DEMİR KIVRAK H.
SURFACES AND INTERFACES, vol.28, 2022 (SCI-Expanded)
64. **A novel electrochemical sensor for monitoring ovarian cancer tumor protein CA 125 on benzothiophene derivative based electrodes**
Er O. F., DEMİR KIVRAK H., Ozok Ö., Çelik S., KIVRAK A.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.904, 2022 (SCI-Expanded)
65. **Highly Active RuPd Bimetallic Catalysts for Sodium Borohydride Electrooxidation and Hydrolysis**
KAYA Ş., Yilmaz Y., Er O. F., Alpaslan D., Ulaş B., Dudu T. E., DEMİR KIVRAK H.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.1, pp.403-411, 2022 (SCI-Expanded)
66. **Novel cnt supported molybdenum catalyst for detection of l-cysteine in its natural environment**
Selçuk K., DEMİR KIVRAK H., Aktaş N.
Catalysts, vol.11, no.12, 2021 (SCI-Expanded)
67. **A double-functional carbon material as a supercapacitor electrode and hydrogen production: Cu-doped tea factory waste catalyst**
Ozarslan S., Atelge M. R., DEMİR KIVRAK H., Horoz S., Yavuz C., Kaya M., ÜNALAN S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.24, pp.28909-28918, 2021 (SCI-Expanded)
68. **Tailoring Cadmium Composition on Titanium Dioxide to Achieve Enhanced Photocatalytic Glucose Fuel Cell Anode Performance**
Caglar A., Aktaş N., DEMİR KIVRAK H.
ACS Applied Energy Materials, vol.4, pp.12298-12309, 2021 (SCI-Expanded)
69. **A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes**
Atelge M. R., Senol H., Djaafri M., Hansu T. A., Krisa D., Atabani A., Eskicioglu C., Muratcobanoglu H., ÜNALAN S., Kalloum S., et al.
SUSTAINABILITY, vol.13, no.20, 2021 (SCI-Expanded)
70. **Remarkable activity of a ZnPdPt anode catalyst: Synthesis, characterization, and formic acid fuel cell performance**
Caglar A., Cogenli M. S., BAYRAKÇEKEN YURTCAN A., Alal O., Kivrak H.
Journal of Physics and Chemistry of Solids, vol.156, 2021 (SCI-Expanded)
71. **Superior formic acid electrooxidation activity on carbon nanotube-supported binary Pd nanocatalysts prepared via sequential sodium borohydride reduction technique**
Caglar A., Kivrak H.
Surface and Interface Analysis, vol.53, pp.716-726, 2021 (SCI-Expanded)
72. **Nanostructured electrochemical cysteine sensor based on carbon nanotube supported Ru, Pd, and Pt catalysts**
Kivrak H., Selçuk K., Er O. F., Aktaş N.
Materials Chemistry and Physics, vol.267, 2021 (SCI-Expanded)
73. **Design of 2-(4-(2-pentyl)benzo[b]thiophen-3-yl)benzylidene)malononitrile based remarkable organic catalyst towards hydrazine electrooxidation**

- Faruk Er O., Ulaş B., Ozok Ö., Kivrak A., Kivrak H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.888, 2021 (SCI-Expanded)
74. **Fabrication of Carbon-Doped Titanium Dioxide Nanotubes as Anode Materials for Photocatalytic Glucose Fuel Cells**
Caglar A., Kivrak H., Aktaş N., Solak A. O.
Journal of Electronic Materials, vol.50, no.4, pp.2242-2253, 2021 (SCI-Expanded)
75. **Disentangling the enhanced catalytic activity on Ga modified Ru surfaces for sodium borohydride electrooxidation**
Ulaş B., Alpaslan D., Yılmaz Y., Dudu T. E., Er O. F., Kivrak H.
Surfaces and Interfaces, vol.23, 2021 (SCI-Expanded)
76. **Untangling the cobalt promotion role for ruthenium in sodium borohydride dehydrogenation with multiwalled carbon nanotube-supported binary ruthenium cobalt catalyst**
Avcı Hansu T., Sahin O., Çağlar A., Demir Kivrak H.
International Journal of Energy Research, vol.45, no.4, pp.6054-6066, 2021 (SCI-Expanded)
77. **A novel experimental and density functional theory study on palladium and nitrogen doped few layer graphene surface towards glucose adsorption and electrooxidation**
Caglar A., Düzenli D., ÖNAL I., Tezsevin I., Sahin O., Kivrak H.
Journal of Physics and Chemistry of Solids, vol.150, 2021 (SCI-Expanded)
78. **Electrochemical Cysteine Sensor on Novel Ruthenium Based Ternary Catalyst**
Kivrak H., Selçuk K., Er O. F., Aktaş N.
International Journal of Electrochemical Science, vol.16, pp.1-17, 2021 (SCI-Expanded)
79. **A comparative analysis for anti-viral drugs: Their efficiency against SARS-CoV-2**
Kivrak A., Ulaş B., Kivrak H.
International Immunopharmacology, vol.90, 2021 (SCI-Expanded)
80. **Remarkable bismuth-gold alloy decorated on MWCNT for glucose electrooxidation: the effect of bismuth promotion and optimization via response surface methodology**
Er O. F., Ulaş B., Demir Kivrak H.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.4, pp.1173-1189, 2021 (SCI-Expanded)
81. **A remarkable Mo doped Ru catalyst for hydrogen generation from sodium borohydride: the effect of Mo addition and estimation of kinetic parameters**
Avcı Hansu T., Sahin O., Caglar A., Kivrak H.
Reaction Kinetics, Mechanisms and Catalysis, vol.131, no.2, pp.661-676, 2020 (SCI-Expanded)
82. **Enhanced electrochemical glucose oxidation in alkaline solution over indium decorated carbon supported palladium nanoparticles**
Er O. F., Caglar A., Kivrak H.
Materials Chemistry and Physics, vol.254, 2020 (SCI-Expanded)
83. **Novel benzothiophene based catalyst with enhanced activity for glucose electrooxidation**
Ozok Ö., Kavak E., Er O. F., Kivrak H., Kivrak A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.53, pp.28706-28715, 2020 (SCI-Expanded)
84. **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., Yildiz F., Er Ö. F., Kivrak H.
Frontiers in Energy, vol.14, no.3, pp.578-589, 2020 (SCI-Expanded)
85. **Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**
Salman F., Kazici H. C., Kivrak H.
Frontiers of Chemical Science and Engineering, vol.14, no.4, pp.629-638, 2020 (SCI-Expanded)
86. **Synthesis of Ferrocene Based Naphthoquinones and its Application as Novel Non-enzymatic Hydrogen Peroxide**
Ertas N. A., Kavak E., Salman F., Kazici H. C., Kivrak H., Kivrak A.
Electroanalysis, vol.32, no.6, pp.1178-1185, 2020 (SCI-Expanded)

87. **Tailoring the metallic composition of Pd, Pt, and Au containing novel trimetallic catalysts to achieve enhanced formic acid electrooxidation activity**
Ulaş B., Caglar A., Kivrak A., Aktaş N., Kivrak H.
Ionics, vol.26, no.6, pp.3109-3121, 2020 (SCI-Expanded)
88. **Effective carbon nanotube supported metal (M=Au, Ag, Co, Mn, Ni, V, Zn) core Pd shell bimetallic anode catalysts for formic acid fuel cells**
Caglar A., Cogenli M. S., BAYRAKÇEKEN YURTCAN A., Kivrak H.
Renewable Energy, vol.150, pp.78-90, 2020 (SCI-Expanded)
89. **Novel carbon nanotube supported Co@Ag@Pd formic acid electrooxidation catalysts prepared via sodium borohydride sequential reduction method**
Er O. F., Caglar A., Ulaş B., Kivrak H., Kivrak A.
Materials Chemistry and Physics, vol.241, 2020 (SCI-Expanded)
90. **A comparative experimental and density functional study of glucose adsorption and electrooxidation on the Au-graphene and Pt-graphene electrodes**
Caglar A., Düzenli D., ÖNAL I., Tezsevin I., Sahin O., Kivrak H.
International Journal of Hydrogen Energy, vol.45, no.1, pp.490-500, 2020 (SCI-Expanded)
91. **Hydrolysis and electrooxidation of sodium borohydride on novel CNT supported CoBi fuel cell catalyst**
Hansu T. A., Caglar A., Sahin O., Kivrak H.
Materials Chemistry and Physics, vol.239, 2020 (SCI-Expanded)
92. **Towards more active and stable PdAgCr electrocatalysts for formic acid electrooxidation: The role of optimization via response surface methodology**
Ulaş B., Caglar A., Yılmaz Ş., Ecer U., Yılmaz Y., Şahan T., Kivrak H.
International Journal of Energy Research, vol.43, no.15, pp.8985-9000, 2019 (SCI-Expanded)
93. **Synthesis of in situ N-, S-, and B-doped few-layer graphene by chemical vapor deposition technique and their superior glucose electrooxidation activity**
Caglar A., Ulaş B., Sahin O., Kivrak H.
International Journal of Energy Research, vol.43, no.14, pp.8204-8216, 2019 (SCI-Expanded)
94. **Synthesis and characterization of Co, Zn, Mn, V modified Pd formic acid fuel cell anode catalysts**
Caglar A., Ulaş B., Cogenli M. S., BAYRAKÇEKEN YURTCAN A., Kivrak H.
Journal of Electroanalytical Chemistry, vol.850, 2019 (SCI-Expanded)
95. **Dendrimer Templated Synthesis of Carbon Nanotube Supported PdAu Catalyst and its Application as Hydrogen Peroxide Sensor**
Alal O., Caglar A., Kivrak H., Sahin O.
Electroanalysis, vol.31, no.9, pp.1646-1655, 2019 (SCI-Expanded)
96. **Carbon monoxide and formic acid electrooxidation study on Au decorated Pd catalysts prepared via microwave assisted polyol method**
Ulaş B., Kivrak A., Aktaş N., Kivrak H.
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.27, no.7, pp.545-552, 2019 (SCI-Expanded)
97. **Determination of optimum Pd:Ni ratio for PdxNi100-x/CNTs formic acid electrooxidation catalysts synthesized via sodium borohydride reduction method**
Ulaş B., Caglar A., Kivrak H.
International Journal of Energy Research, vol.43, no.8, pp.3436-3445, 2019 (SCI-Expanded)
98. **Development of Nonenzymatic Benzoic Acid Detection on PdSn/GCE/Vulcan XC-72R Prepared via Polyol Method**
Kazıcı H. Ç., Yayla M., Ulaş B., Aktaş N., Kivrak H.
Electroanalysis, vol.31, no.6, pp.1118-1124, 2019 (SCI-Expanded)
99. **Highly active carbon nanotube supported PdAu alloy catalysts for ethanol electrooxidation in alkaline environment**
Caglar A., Kivrak H.
International Journal of Hydrogen Energy, vol.44, no.23, pp.11734-11743, 2019 (SCI-Expanded)

100. **Novel activated carbon supported trimetallic PdCoAg nanoparticles as efficient catalysts for the hydrolytic dehydrogenation of ammonia borane**
Çelik Kazıcı H., Yıldız F., İzgi M. S., Ulaş B., Kivrak H.
International Journal of Hydrogen Energy, vol.44, no.21, pp.10561-10572, 2019 (SCI-Expanded)
101. **Atomic molar ratio optimization of carbon nanotube supported PdAuCo catalysts for ethylene glycol and methanol electrooxidation in alkaline media**
Ulaş B., Caglar A., Kivrak A., Kivrak H.
Chemical Papers, vol.73, no.2, pp.425-434, 2019 (SCI-Expanded)
102. **3-Acrylamidopropyl-trimethylammoniumchloride cationic hydrogel modified graphite electrode and its superior sensitivity to hydrogen peroxide**
Caglar A., Kazıcı H. Ç., Alpaslan D., Yılmaz Y., Kivrak H., Aktaş N.
Fullerenes Nanotubes and Carbon Nanostructures, vol.27, no.9, pp.736-745, 2019 (SCI-Expanded)
103. **Composition dependent activity of PdAgNi alloy catalysts for formic acid electrooxidation**
Ulaş B., Caglar A., Sahin O., Kivrak H.
Journal of Colloid and Interface Science, vol.532, pp.47-57, 2018 (SCI-Expanded)
104. **Alcohol electrooxidation study on carbon nanotube supported monometallic, Pt, Bi, and Ru catalysts**
Çağlar A., Aldemir A., Kivrak H.
Fullerenes Nanotubes and Carbon Nanostructures, vol.26, no.12, pp.863-870, 2018 (SCI-Expanded)
105. **A complementary study on novel PdAuCo catalysts: Synthesis, characterization, direct formic acid fuel cell application, and exergy analysis**
Kivrak H., Atbas D., Alal O., Çögenli M. S., Bayrakceken A., Mert S. O., Sahin O.
International Journal of Hydrogen Energy, pp.21886-21898, 2018 (SCI-Expanded)
106. **Microstructured prealloyed Titanium-Nickel powder as a novel nonenzymatic hydrogen peroxide sensor**
Çelik Kazıcı H., Caglar A., Aydoğmuş T., Aktaş N., Kivrak H.
Journal of Colloid and Interface Science, vol.530, pp.353-360, 2018 (SCI-Expanded)
107. **Synthesis of tetracyanoethylene-substituted ferrocene and its device properties**
Kivrak A., Zobi C., Torlak Y., Çamlısoy Y., Kuş M., Kivrak H.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, no.10, 2018 (SCI-Expanded)
108. **A novel Central Composite Design based response surface methodology optimization study for the synthesis of Pd/CNT direct formic acid fuel cell anode catalyst**
Caglar A., Şahan T., Cogenli M. S., BAYRAKÇEKEN YURTCAN A., Aktaş N., Kivrak H.
International Journal of Hydrogen Energy, vol.43, no.24, pp.11002-11011, 2018 (SCI-Expanded)
109. **Synthesis, characterization, and enhanced formic acid electrooxidation activity of carbon supported MnOx promoted Pd nanoparticles**
Bulut A., Yurderi M., Alal O., Kivrak H., Kaya M., Zahmakıran M.
Advanced Powder Technology, vol.29, no.6, pp.1409-1416, 2018 (SCI-Expanded)
110. **Synthesis, characterization, and voltammetric hydrogen peroxide sensing on novel monometallic (Ag, Co/MWCNT) and bimetallic (AgCo/MWCNT) alloy nanoparticles**
Kazıcı H. C., Salman F., Caglar A., Kivrak H., Aktaş N.
Fullerenes Nanotubes and Carbon Nanostructures, vol.26, no.3, pp.145-151, 2018 (SCI-Expanded)
111. **Synthesis and characterization of novel Ti doped hexagonal mesoporous silica catalyst for nonenzymatic hydrogen peroxide oxidation**
Düzenli D., Sahin Ö., Kazıcı H. Ç., Aktaş N., Kivrak H.
Microporous and Mesoporous Materials, vol.257, pp.92-98, 2018 (SCI-Expanded)
112. **Synthesis and solar-cell applications of novel furanyl-substituted anthracene derivatives**
Kivrak A., Er Ö. F., Kivrak H., Topal Y., Kuş M., Çamlısoy Y.
OPTICAL MATERIALS, vol.73, pp.206-212, 2017 (SCI-Expanded)
113. **Synthesis of thiophenyl-substituted unsymmetrical anthracene derivatives and investigation of their electrochemical and electrooptical properties**
Kivrak A., Çalış H., Topal Y., Kivrak H., Kuş M.

- SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.161, pp.31-37, 2017 (SCI-Expanded)
114. **Atomic layer deposition-SiO₂ layers protected PdCoNi nanoparticles supported on TiO₂ nanopowders: Exceptionally stable nanocatalyst for the dehydrogenation of formic acid**
Caner N., Bulut A., Yurderi M., Ertas I. E., Kivrak H., Kaya M., Zahmakıran M.
Applied Catalysis B: Environmental, vol.210, pp.470-483, 2017 (SCI-Expanded)
115. **Synthesis of Pd-Ni/C bimetallic materials and their application in non-enzymatic hydrogen peroxide detection**
Kazici H. C., Salman F., Kivrak H.
Materials Science- Poland, vol.35, no.3, pp.660-666, 2017 (SCI-Expanded)
116. **Surface Characterization Techniques**
Erdogan G., Guler G., Kilic T., Kilic D. O., Erdogan B., Tosun Z., Kivrak H., Turkan U., Ozcan F., Gursoy M., et al.
SURFACE TREATMENTS FOR BIOLOGICAL, CHEMICAL, AND PHYSICAL APPLICATIONS, pp.67-114, 2017 (SCI-Expanded)
117. **Facile and Rapid Synthesis of Microwave Assisted Pd Nanoparticles as Non-Enzymatic Hydrogen Peroxide Sensor**
Sahin O., Kivrak H., Kivrak A., Kazici H. Ç., Alal O., Atbas D.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.12, no.1, pp.762-769, 2017 (SCI-Expanded)
118. **An ethanol electrooxidation study on carbon-supported Pt-Ru nanoparticles for direct ethanol fuel cells**
Sahin O., Duzenli D., Kivrak H.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, no.5, pp.628-634, 2016 (SCI-Expanded)
119. **PdAu-MnO_x nanoparticles supported on amine-functionalized SiO₂ for the room temperature dehydrogenation of formic acid in the absence of additives**
Karataş Y., Bulut A., Yurderi M., Ertas I. E., Alal O., Gülcan M., Çelebi M., Kivrak H., Kaya M., Zahmakıran M.
Applied Catalysis B: Environmental, vol.180, pp.586-595, 2016 (SCI-Expanded)
120. **MnO_x-Promoted PdAg Alloy Nanoparticles for the Additive-Free Dehydrogenation of Formic Acid at Room Temperature**
Bulut A., Yurderi M., Karataş Y., Say Z., Kivrak H., Kaya M., Gülcan M., Ozensoy E., Zahmakıran M.
ACS CATALYSIS, no.10, pp.6099-6110, 2015 (SCI-Expanded)
121. **Efficient and rapid microwave-assisted route to synthesize Pt-MnO_x hydrogen peroxide sensor**
Kivrak H., Alal O., Atbas D.
ELECTROCHIMICA ACTA, pp.497-503, 2015 (SCI-Expanded)
122. **Pd-MnO_x nanoparticles dispersed on amine-grafted silica: Highly efficient nanocatalyst for hydrogen production from additive-free dehydrogenation of formic acid under mild conditions**
Bulut A., Yurderi M., Karataş Y., Zahmakıran M., Kivrak H., Gülcan M., Kaya M.
APPLIED CATALYSIS B-ENVIRONMENTAL, pp.324-333, 2015 (SCI-Expanded)
123. **The effect of temperature and concentration for methanol electrooxidation on Pt-Ru catalyst synthesized by microwave assisted route**
Kivrak H.
TURKISH JOURNAL OF CHEMISTRY, no.3, pp.563-575, 2015 (SCI-Expanded)
124. **Methanol Electrooxidation Study on Mesoporous Silica Supported Pt-Co Direct Methanol Fuel Cell Anode**
Kivrak H., Can M., Duru H., Sahin O.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, no.1, 2014 (SCI-Expanded)
125. **In Vitro Determination of 6PGD Enzyme Activity Purified from Lake Van Fish (*Chalcalburnus tarichii* Pallas, 1811) Liver Exposed to Pesticides**
Güler M., Kivanç M. R., Türkoğlu V., Basi Z., Kivrak H.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, no.5, pp.560-564, 2013 (SCI-Expanded)

126. **A comparative study of electrochemical methods on Pt-Ru DMFC anode catalysts: The effect of Ru addition**
Sahin O., Kivrak H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, no.2, pp.901-909, 2013 (SCI-Expanded)
127. **Carbon nanotube structures as support for ethanol electro-oxidation catalysis**
Kivrak H., Kuliyeve S., Tempel H., Schneider J., ÜNER D.
International Journal of Chemical Reactor Engineering, vol.9, 2011 (SCI-Expanded)
128. **Determination of the dispersion of supported Pt particles by gas-phase and liquid-phase measurements**
Kivrak H., Mastalir Á., Király Z., ÜNER D.
CATALYSIS COMMUNICATIONS, no.6, pp.1002-1005, 2009 (SCI-Expanded)
129. **Liquid chromatography as a novel method for determination of the dispersion of supported Pd particles**
Király Z., Mastalir Á., Császár Á., Demir H., ÜNER D., Findenegg G. H.
JOURNAL OF CATALYSIS, no.2, pp.267-271, 2007 (SCI-Expanded)

Articles Published in Other Journals

- Synthesis of Benzo[b]Thiophene-Based Organic Compounds and Their Hydrazine Electrooxidation Performance as an Anode Catalyst**
Özok Arıcı Ö., Kaya Ş., Çağlar A., Demir Kivrak H., Kivrak A.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.32, no.2, pp.1356-1362, 2024 (Peer-Reviewed Journal)
- NOVEL CNT SUPPORTED RU-CO CATALYST FOR DETECTION OF THREONINE IN ITS NATURAL ENVIRONMENT**
Özok Arıcı Ö., Demir Kivrak H., Kivrak A.
International Journal of Ecosystems and Ecology Science (IJEES), vol.14, no.2, pp.31-36, 2024 (ESCI)
- Carbon nano tube assisted triple metal electrode and high-impact electro sensor for preservative detection in food samples**
Yayla M., Çelik Kazıcı H., DEMİR KIVRAK H.
Materials Research Innovations, vol.28, no.5, pp.309-320, 2024 (Scopus)
- Investigation of the performance of (4-(3-iodobenzo[b]thiophen-2-yl)-N,N-dimethylaniline as an anode catalyst for glucose electrooxidation**
Özok Arıcı Ö., Kaya Ş., Çağlar A., Demir Kivrak H., Kivrak A.
Manas Journal of Engineering, vol.11, no.2, pp.216-222, 2023 (Peer-Reviewed Journal)
- Novel CA-125 antigen determination in serum by electrochemical methods with onion oil-containing organo-hydrogels**
ER Ö. F., ALPASLAN D., DUDU T. E., KIVRAK H.
Manas Journal of Engineering, vol.11, no.1, pp.124-135, 2023 (Peer-Reviewed Journal)
- Sociological Perspective of Trust in Islamic Ethics**
Demir Kivrak H.
International Journal of Dorlion Academic Social research, vol.1, no.1, pp.1-12, 2023 (Peer-Reviewed Journal)
- A REMARKABLE SYNERGIC EFFECT OF POLY (ACRYLIC ACID) HYDROGEL ANCHORED Pd CATALYSTS IN FORMIC ACID ELECTROOXIDATION REACTION**
Khalid S., DEMİR KIVRAK H., ALPASLAN D., KAYA Ş., AKTAŞ N.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.4, pp.275-282, 2022 (ESCI)
- SYNTHESIS OF THYMOL DERIVATIVES AND ITS FUEL CELL PERFORMANCE AS AN ANODE CATALYST**
Sharif K. H., Özok Ö., Çağlar A., Demir Kivrak H., Kivrak A.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.3, pp.51-58, 2022 (ESCI)
- The characterization and sodium borohydride electrooxidation of novel carbon nanotube supported**

copromoted Pd as anode catalyst for fuel cell

ÇAĞLAR A., AVCI HANSU T., ŞAHİN Ö., DEMİR KIVRAK H.
ENERGY STORAGE, no.2, 2022 (ESCI)

10. **The preparation, characterization, and electrooxidation of colloidal palladium modified poly(methacrylic acid) hydrogel as formic acid fuel cell anode catalyst**
Demir Kıvrak H., Khalid S., Çağlar A., Alpaslan D., Selçuk K., Dudu T. E., Aktaş N.
ENERGY STORAGE, vol.4, no.1, 2022 (ESCI)
11. **Highly active carbon nanotube supported iridium, copper, ruthenium catalysts for glucose electrooxidation**
Er O. F., DEMİR KIVRAK H.
ENERGY STORAGE, no.6, 2021 (ESCI)
12. **Ruthenium modified defatted spent coffee catalysts for supercapacitor and methanolysis application**
Akdemir M., Hansu T. A., Çağlar A., Kaya M., Demir Kıvrak H.
ENERGY STORAGE, no.4, 2021 (ESCI)
13. **Structure of ruthenium nanocatalysts of bismuth, investigation of its effect on hydrolysis performance and kinetic studies**
Avcı Hansu T., Çağlar A., DEMİR KIVRAK H., ŞAHİN Ö.
ENERGY STORAGE, 2021 (ESCI)
14. **Electrochemical evaluation of the hydroxyapatite coating synthesized on the AZ91 by electrophoretic deposition route**
Tazeh Kand A. J., Afaghi F., Taghizadeh Tabrizi A., Aghajani H., Demir Kıvrak H.
Synthesis and Sintering, vol.1, no.2, pp.85-91, 2021 (Peer-Reviewed Journal)
15. **PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE: A REVIEW ON MODIFIED TITANIUM DIOXIDE**
DEMİR KIVRAK H., Saleh D. I.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.2, pp.269-276, 2021 (ESCI)
16. **Investigation of hydrazine electrooxidation performance of carbon nanotube supported Pd monometallic direct hydrazine fuel cell anode catalysts**
Er O. F., Ali C., Aldemir A., Demir Kıvrak H.
Manas Journal of Engineering, vol.8, no.2, pp.90-98, 2020 (Peer-Reviewed Journal)
17. **Carbon nanotube supported direct borohydride fuel cell anodecatalysts: the effect of catalyst loading**
Demir Kıvrak H., Çağlar A., Hansu T. A., Şahin Ö.
Manas Journal of Engineering, vol.8, no.1, pp.1-10, 2020 (Peer-Reviewed Journal)
18. **A COMPARATIVE STUDY FOR SODIUM BOROXYDRIDE DEHYDROGENATION AND ELECTROOXIDATION ON CERIUM AND COBALT CATALYSTS**
Hansu T. A., Çağlar A., Şahin Ö., Demir Kıvrak H.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.2, pp.389-400, 2020 (ESCI)
19. **A Review of Pd Based Multimetallic Anode Electrocatalysts for Direct Formic Acid Fuel Cells**
Ulaş B., Demir Kıvrak H.
General Chemistry, vol.6, pp.190028, 2020 (Peer-Reviewed Journal)
20. **Yüksek Aktiviteye Sahip CNT Destekli Pd-Zn Katalizörünün Formik AsitElektrooksitletme Aktivitesinin İncelenmesi**
Yılmaz Y., Er Ö. F., Ulaş B., Demir Kıvrak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.2, pp.125-132, 2019 (Peer-Reviewed Journal)
21. **Few-layer graphene coated on indium tin oxide electrodes prepared by chemical vapor deposition and their enhanced glucose electrooxidation activity**
Çağlar A., Ulaş B., Gökdoğan Şahin Ö., Demir Kıvrak H.
ENERGY STORAGE, no.4, 2019 (ESCI)
22. **Electrochemical production of Graphene Oxide and its application as a novel Hydrogen Peroxide sensor**

- Kivrak H., Aktaş N., Çağlar A.
INTERNATIONAL JOURNAL OF NANO DIMENSION, vol.10, no.3, pp.252-259, 2019 (ESCI)
23. **Karbon Destekli Pd Nanokatalizörü Üzerinde Elektrokoksitleme Parametrelerinin İncelenmesi**
Yılmaz Y., Yurdidül M., Çağlar A., Ulaş B., Demir Kivrak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.1, pp.19-25, 2019 (Peer-Reviewed Journal)
24. **CNT Destekli Pd, Sn, Ir Tekmetalli Katalizörlerinin Metanol, Etanol, Etilen Glikol Elektrokoksitleme Aktivitesinin Araştırılması**
Cavak A., Çağlar A., Aldemir A., Demir Kivrak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.2, pp.115-124, 2019 (Peer-Reviewed Journal)
25. **A novel study on the stepwise electrodeposition approach for the synthesis of Pd based nanoparticles, characterization and their enhanced electrooxidation activities**
Avcı Ç., Çicek F., Çelik Kazıcı H., Kivrak A., Demir Kivrak H.
INTERNATIONAL JOURNAL OF NANO DIMENSION, no.1, pp.15-23, 2018 (ESCI)
26. **A MINI REVIEW ON HEALTH AND ENVIRONMENTAL RISKS OF OIL AND GAS INDUSTRY UNDESİRED PRODUCTS: HYDROGEN SULFIDE AND CARBON MONOXIDE**
Bakr R. A., Ulaş B., Kivrak H.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.4, pp.883-894, 2017 (ESCI)
27. **RISK LEVEL INVESTIGATION OF HYDROGEN SULFIDE AND CARBON MONOXIDE FROM REFINERY IN ERBİL**
Bakr R. A., Kivrak H.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.3, pp.619-634, 2017 (ESCI)
28. **Doğrudan Metanol Yakıt Pili Karbon Destekli Pt-Ru Anot Katalizörlerinin Sıralı İndirgeme Yöntemi ile Sentezi ve Geliştirilmesi**
Demir Kivrak H., Ulaş B.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.1, 2017 (Peer-Reviewed Journal)
29. **Synthesis and Characterization of Carbon Nanotube Supported Pt-Au Catalyst and Its Microwave Assisted N-Hexane Decomposition Measurements**
Muhammed Ali S., Çağlar A., Demir Kivrak H., Kivrak A.
Nanoscience and Nanotechnology Research, vol.4, no.4, pp.132-134, 2017 (Peer-Reviewed Journal)
30. **Microwave Assisted Synthesis of Sn Promoted Pt Catalysts and Their Ethanol Electro oxidation Activities**
Atbas D., Çağlar A., Demir Kivrak H., Kivrak A.
American Journal of Nanomaterials, vol.4, no.1, pp.8-11, 2016 (Peer-Reviewed Journal)
31. **The Effect of Iridium Addition to Platinum on the Alcohol Electrooxidation Activity**
SAHİN O., DEMİR KIVRAK H., KARAMAN M., ATBAŞ D.
American Journal of Materials Science and Engineering, vol.3, no.1, pp.15-20, 2015 (Peer-Reviewed Journal)
32. **ELECTROCATALYTIC PROPERTIES OF NANOSTRUCTURED MULTIMETALLIC Pt Sn Cs C AND Pt M C M Ag Ca Cd Cs Cu Fe Ir Mg Pd Sn Zr DIRECT ETHANOL FUEL CELL CATALYSTS**
Demir Kivrak H., Demir N. C., Sahin O.
Selçuk Üniversitesi Mühendislik Bilim ve teknoloji dergisi, vol.1, no.2, pp.19-28, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Oxygen Reduction Reaction; Fuel Cells**
Yağızathı Y., Acil G., Ulaş B., Demir Kivrak H.
in: Atomically Precise Electrocatalysts for Electrochemical Energy Applications, Anuj Kumar, Ram K. Gupta, Editor, Springer Nature, Uster, pp.111-128, 2024
2. **Metal-free catalysts for hydrogen production**
Demir Kivrak H., Avcı Hansu T., Çağlar A.
in: Carbon-Based Metal Free Catalysts: Preparation, Structural and Morphological Property and Application,

Abdullah Mohammed Asiri, Anish Khan, Showkat Bhawani, Bahaa Abu-Zied, Suchart Siengchin, Hurija Dzudzevic-Cancar, Editor, Elsevier Science, Oxford/Amsterdam, Van, pp.1-290, 2022

3. **Metal-free catalysts for fuel cell applicatio**
Demir Kıvrak H., Ulaş B., Yağızathı Y.
in: Carbon-Based Metal Free Catalysts: Preparation, Structural and Morphological Property and Application, Abdullah Mohammed Asiri, Anish Khan, Showkat Bhawani, Bahaa Abu-Zied, Suchart Siengchin, Hurija Dzudzevic-Cancar, Editor, Elsevier Science, Oxford/Amsterdam, Arizona, pp.1-290, 2022
4. **Carbon Composites as Metal-Free Catalysts**
KAYA Ş., ÇAĞLAR A., AVCI HANSU T., ULAŞ B., Khan A., DEMİR KIVRAK H.
in: Carbon Composite Catalysts, , Editor, Springer, pp.131-169, 2022
5. **Electrocatalysis Based on Carbon Composite Catalysts**
ULAŞ B., KAYA Ş., ÇAĞLAR A., ÖZOK Ö., Hama Sharif K., KAVAK E., KIVRAK A., Khan A., DEMİR KIVRAK H.
in: Carbon Composite Catalysts, , Editor, Springer, pp.371-405, 2022
6. **Chapter 7: Direct formic acid and formate fuel cells (DF (A) FCs)**
Ulaş B., Demir Kıvrak H.
in: Direct Liquid Fuel Cells Fundamentals, Advances and Future, Ramiz Gültekin Akay Ayşe bayrakçeken Yurtcan, Editor, Academic Press, New York, pp.149-168, 2021
7. **Chapter 6 - Introduction to other organic fuel-based fuel cells**
Ulaş B., Demir Kıvrak H.
in: Direct Liquid Fuel Cells Fundamentals, Advances and Future, Ramiz Gültekin Akay Ayşe Bayrakçeken Yurtcan, Editor, Academic Press, New York, pp.137-145, 2021
8. **Yakıt Pili Katalizörleri**
Demir Kıvrak H. (Editor)
Gece Publishing, Ankara, 2019
9. **Bölüm 2: Yakıt Pili Katalizörleri**
Şahin Ö. G., Ulaş B., Çağlar A., Demir Kıvrak H., Aktaş N.
in: Yakıt Pili katalizörleri, Hilal Demir Kıvrak, Editor, Gece Publishing, Ankara, pp.13-37, 2019
10. **Bölüm 1: Yakıt Pillerine Giriş**
Şahin Ö. G., Ulaş B., Demir Kıvrak H.
in: Yakıt Pili Katalizörleri, Hilal Demir Kıvrak, Editor, Gece Publishing, Ankara, pp.1-37, 2019
11. **Bölüm 3: Yakıt Pili Katalizörlerinin Sentezi ve Karakterizasyonu**
Çelik Kazıcı H., Ulaş B., Demir Kıvrak H.
in: Yakıt Pili Katalizörleri, Hilal Demir Kıvrak, Editor, Gece Publishing, Ankara, pp.37-99, 2019
12. **Chemical and Physical Modification of Surfaces**
Karaman M., Gürsoy M., Kuş M., Özel F., Yenel E., Şahin Ö., Demir Kıvrak H.
in: Surface Treatments for Biological Chemical and Physical Applications, Mustafa Karaman, Mehmet Gürsoy, Editor, Academic Press, New York, pp.23-60, 2017
13. **Surface Characterization Techniques**
Erdoğan G., Güler G., Kılıç T., O Kılıç D., Erdoğan B., Demir Kıvrak H., Gürsoy M., Karaman M.
in: Surface Treatments for Biological Chemical and Physical Applications, Mustafa Karaman, Mehmet Gürsoy, Editor, Academic Press, New York, pp.67-108, 2017

Refereed Congress / Symposium Publications in Proceedings

1. **Doğrudan Hidrazin Yakıt Pili Sistemlerinde Organik Temelli Katalizörlerin Performanslarının İncelenmesi**
Kaya Ş., Özok Arıcı Ö., Ulaş B., Kıvrak A., Demir Kıvrak H.
4. BİLSEL INTERNATIONAL SUMELA SCIENTIFIC RESEARCHES CONGRESS, Trabzon, Turkey, 10 - 11 August 2024, pp.641-647
2. **Synthesis Of Pd/PEG-Cellulose Electrocatalyst for Improved Glucose Electrooxidation Activity**

ULAŞ B., YILMAZ Y., GÖK Ö., DEMİR KIVRAK H.

The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 October - 08 December 2023

3. **Production of Composite Electrode Material with Wide Operating Voltage in Aqueous Electrolyte for Supercapacitors and its Application in Symmetric Supercapacitor**
DEMİR B., YAZAR AYDOĞAN S., ÇAĞLAR A., ÖZEROĞLU C., DEMİR KIVRAK H.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 - 08 October 2023
4. **Investigation of Indole Derivatives as Anode Catalyst for Hydrazine Electrooxidation**
Çalış H., ULAŞ B., Yılmaz Y., DEMİR KIVRAK H., KIVRAK A.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 - 08 October 2023
5. **Design of a Highly Effective Organic Catalyst for Hydrazine Electrooxidation: Iodobenzo[b]furan Derivatives**
Najri B. A., KAYA Ş., KAVAK E., KIVRAK A., DEMİR KIVRAK H.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 06 October 2023
6. **The Synthesis and Characterization of Carbon Nanotube-Supported CuBi Catalyst for H₂ production from NaBH₄ methanolysis**
ABBAS M. J., ÇAĞLAR A., DEMİR KIVRAK H.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 06 October 2023
7. **Investigation of Thermo-Alkaline Pretreatment on Anaerobic Digestion of Obtained Defatted Spent Coffee Ground Using Ethanol as Solvent**
İlcina İ., Rafil R., ATELGE M. R., AVCI HANSU T., KAYA M., DEMİR KIVRAK H., BÖĞREKÇİ İ., YILDIZ Y. Ş., AKANSU S. O., ÜNALAN S., et al.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 06 October 2023
8. **Enhanced Performance of CNT Supported Bimetallic PdM (M=Cr, Ta, Bi, Hf) Catalysts as Anode Electrode for Ammonia Borane Electrooxidation**
KAYA Ş., ÇAĞLAR A., DEMİR KIVRAK H.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 - 08 October 2023
9. **Development of Microbial Fuel Cell and its Optimization with Response Surface Methodology**
DEMİR KIVRAK H., AKTAŞ N.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 - 08 October 2023
10. **Investigation of a Novel Electrocatalyst Obtained by Adding Ni to Defatted Spent Coffee Ground (DSCG) for Fuel Cell and Supercapacitor Applications**
Rafil R., AVCI HANSU T., ATELGE M. R., KAYA M., DEMİR KIVRAK H., BÖĞREKÇİ İ., YILDIZ Y. Ş., AKANSU S. O., ÜNALAN S., ATABANI A.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 06 October 2023
11. **Sensitivity Determination of CA125 Ovarium Cancer Markers with New Generation Material-Based Electrochemical Immunosensors**
DEMİR KIVRAK H.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and Challenges, 6 - 08 October 2023
12. **Use of Activated Carbon Derived from Waste Fabrics as a Catalyst in NaBH₄ Methanolysis**
YILDIZ D., SARIBOĞA E., ALTINAY B. S., DENKTAŞ D., KAYA Ş., DEMİR KIVRAK H., KORKMAZ N.
The 6th International Conference on Alternative Fuels, Energy & Environment (ICAFEE 2023): Future and

Challenges, 06 October 2023

13. **Nanocatalysts For Hydrogen Production: Recent and Innovated Technology**
Demir Kivrak H.
CIMEE'23, 5th International Symposium, Bayrut, Lebanon, 21 - 23 September 2023
14. **Investigation of Electrooxidation and Methanolysis of Sodium Borohydride on Activated Carbon Supported Co Catalysts from Poplar Sawdust**
ÇAĞLAR A., KAYA Ş., SAKA C., YILDIZ D., DEMİR KIVRAK H.
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.71-74
15. **Methanolysis and Electrooxidation of Sodium Borohydride on CNT Supported Pd and Au Bimetallic Catalysts**
KAYA Ş., ÇAĞLAR A., SAKA C., DEMİR KIVRAK H.
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.75-78
16. **Yeni Nesil Poli(akrilik asit) Temelli kompozit Elektrotların Hazırlanması ve Süperkapasitör Uygulamaları**
DEMİR KIVRAK H.
3rd International Symposium of Scientific Research and Innovative Studies (ISSRIS'23), 15 - 18 March 2023
17. **3RD INTERNATIONAL SYMPOSIUM OF SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES**
ALOVN D., YAZAR AYDOĞAN S., ÇAĞLAR A., DEMİR KIVRAK H.
Preparation of New Generation Poly(acrylic acid) Based Composite Electrodes and Supercapacitor Applications, Turkey, 15 - 18 March 2023
18. **Synthesis of Thymol Derivatives and its Fuel Cell Performance as an Anode Catalyst'**
Hama Sharif K., ÖZOK ARICI Ö., ÇAĞLAR A., DEMİR KIVRAK H., KIVRAK A.
5th International Conference on Alternative Fuels, Energy & Environment: Future and Challenges (ICAFEE 2021), Kayseri, Turkey, 16 October 2021 - 18 October 2020, pp.664
19. **Enhanced Glucose Electrooxidation Activity With Palladium Doped Benzothiofene Based Catalyst**
KAYA Ş., ÖZOK ARICI Ö., KIDAK Ş. M., BAŞAR H., İZMİRLİ S., ÇAĞLAR A., KIVRAK A., DEMİR KIVRAK H.
4. International European Conference On Interdisciplinary Scientific Research, 08 August 2021
20. **Hidrazin Elektrokoksasyon Reaksiyonunda Anot Katalizörleri Olarak Benzotiyofen Türevlerinin Tasarımı, Karakterizasyonu, Performans Analizleri Ve Optimizasyonu, Sözlü Sunum**
ER Ö. F., ULAŞ B., ÖZOK ARICI Ö., KIVRAK A., DEMİR KIVRAK H.
14. Ulusal Kimya Mühendisliği Kongresi, Turkey, 10 June 2020
21. **Hidrazin Elektrokoksasyon Reaksiyonunda Anot Katalizörleri Olarak Benzotiyofen Türevlerinin Tasarımı, Karakterizasyonu, Performans Analizleri Ve Optimizasyonu**
ER Ö. F., ULAŞ B., ÖZOK ARICI Ö., KIVRAK A., DEMİR KIVRAK H.
14. Ulusal Kimya Mühendisliği Kongresi, Turkey, 10 June 2020
22. **Effect of Pd addition to PtAu/C catalyst on formic acid electrooxidation**
DEMİR KIVRAK H., ULAŞ B., AKTAŞ N.
13th European Congress on Catalysis, 27 - 31 August 2017
23. **Synthesis and characterization of Pd-M (Co, Mn, Zn) catalysts for formic acid electrooxidation**
DEMİR KIVRAK H., ULAŞ B., AKTAŞ N.
EUROPACAT 2017, 27 - 31 August 2017
24. **Karbon Nanotüp Destekli PdAg Katalizörünün Nano Tasarım ile Sentezi, Karakterizasyonu ve Doğrudan Formik Asit Yakıt Pili Uygulaması**
ÇAĞLAR A., ULAŞ B., DEMİR KIVRAK H., AKTAŞ N.
6. FİZİKSEL KİMYA KONGRESİ, Turkey, 15 - 18 May 2017
25. **Sensitive non-enzymatic glucose sensor based on bimetallic metals**
ÇELİK KAZICI H., SALMAN F., YAYLA M., DEMİR KIVRAK H.
International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017
26. **Highly active non-enzymatic hydrogen peroxide and glucose detection**
ÇELİK KAZICI H., SALMAN F., DEMİR KIVRAK H.
International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017

27. **Synthesis and Characterization of PdAgNi/CNT Catalysts for Formic Acid Electrooxidation**
 ULAŞ B., DEMİR KIVRAK H., CAGLAR A., ÇELİK KAZICI H.
 International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017
28. **Synthesis, Characterization and CO Poisoning Tolerance of PdAgNi/CNT Catalysts**
 ULAŞ B., DEMİR KIVRAK H., CAGLAR A., ÇELİK KAZICI H.
 International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017
29. **Synthesis Of Sodium Borohydride Based Ag-Co/MWCNT Nanocomposites For Applications In Catalysis**
 ÇELİK KAZICI H., SALMAN F., CAGLAR A., DEMİR KIVRAK H., AKTAŞ N.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
30. **Synthesis And Electrochemical Characterization Of The PdAg/CNT Electrocatalyst**
 ULAŞ B., CAGLAR A., DEMİR KIVRAK H., AKTAŞ N., ÇELİK KAZICI H.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
31. **Enhanced formic acid electrooxidation activity on Zinc core Palladium shell catalysts**
 CAGLAR A., DEMİR KIVRAK H., SAHİN O.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
32. **Novel CNT supported vanadium core palladium shell formic acid fuel cell anode catalysts**
 ULAŞ B., DEMİR KIVRAK H., SAHİN O.
 International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
33. **The Synthesis And Characterization Of Pd-Based Alloy Anode Catalysts For Formic Acid Electrooxidation**
 DEMİR KIVRAK H., SAHİN O., ALAL O.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
34. **Synthesis Of The PdAgCo/CNT For Direct Formic Acid Fuel Cell**
 CAGLAR A., ULAŞ B., DEMİR KIVRAK H., AKTAŞ N., ÇELİK KAZICI H.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
35. **Facile fabrication of Pd monometallic and Pd-Co bimetallic nanoparticles for highly sensitive non-enzymatic hydrogen peroxide sensing**
 ÇELİK KAZICI H., SALMAN F., CAGLAR A., DEMİR KIVRAK H., AKTAŞ N.
 III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE, 3 - 07 May 2017
36. **Pd-based Catalysts for Electrochemical Detection of H₂O₂**
 DEMİR KIVRAK H., SAHİN O., OZKAN E.
 III. International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
37. **Synthesis and Characterization of NiPd / C Metal Nanocatalysts**
 ÇELİK KAZICI H., SALMAN F., DEMİR KIVRAK H.
 2nd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES, ANTALYA, TURKEY, 18 - 21 April 2017
38. **Synthesis and Characterization of Carbon Nanotube Supported PdNiAg Direct Alcohol Fuel Cell Catalysts**
 DEMİR KIVRAK H., CAGLAR A., ULAŞ B., AKTAŞ N.
 2nd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES, ANTALYA, TURKEY, 18 - 21 April 2017
39. **Palladium Based Electrocatalysts for Ethylene Glycol Fuel Cells**
 SAHİN O., DEMİR KIVRAK H.
 2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
40. **Bimetallic nanoparticles for alcohol oxidation"**
 DEMİR KIVRAK H., SAHİN O.
 2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
41. **Synthesis and characterization of Novel mesoporous Catalysts**
 ÇELİK KAZICI H., DÜZENLİ D., DEMİR KIVRAK H., SAHİN Ö.
 International Engineering, Science And Education Group (INESEG 2016), 1 - 03 December 2016

42. **Şahin Ö Kıvrak H D Kıvrak A Çelik Kazıcı H Alal O Atbaş D MICROWAVE SYNTHESIZED Pd NANOPARTICLES AND THEIR APPLICATION AS A NON ENZYMATIC HYDROGEN PEROXIDE SENSOR**
ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A., ÇELİK KAZICI H., ALAL O., Atbaş D.
48th Symposium on Catalysis, Prag, 7 - 09 November 2016
43. **Electrocatalytic oxidation of ethylene glycol at MPd M Mn Zn core shell and alloy bimetallic catalysts**
ULAŞ B., ŞAHİN Ö., DEMİR KIVRAK H., ÖZKAN E.
International Conference on Nanoscience and Nanotechnology for Next Generation(NANONG2016), 20 - 22 October 2016
44. **Electrodeposition of CoAuPd nanoparticles on indium tin oxide and investigation of their electroactivity toward the formic acid electrooxidation**
Ulaş B., Avcı Ç., Demir Kıvrak H., Kıvrak A.
International NANOSCIENCE&NANOTECHNOLOGY FOR NEXT GENERATION (NaNoNG 2016) Conference, Antalya, Turkey, 20 - 22 October 2016
45. **Electrochemical study of Pd Au Au Pd C core shell nanomaterials for non enzymatic hydrogen peroxide sensor**
ÇELİK KAZICI H., DEMİR KIVRAK H.
International Conference on Nanoscience and Nanotechnology for Next Generation(NANONG2016), 20 - 22 October 2016
46. **Synthesis and characterization of microwave assisted Pd nanoparticles as hydrogen peroxide sensor**
ULAŞ B., ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A., ÇELİK KAZICI H., ALAL O., ATBAŞ D.
International NANOSCIENCE&NANOTECHNOLOGY FOR NEXT GENERATION (NaNoNG 2016) Conference, 20 - 22 October 2016
47. **Co PROMOTED Pd Au NANOCATALYSTS AND ITS ENHANCED ALCOHOL ELECTROOXIDATION ACTIVITY**
DEMİR KIVRAK H., ULAŞ B., KIVRAK A.
48th Symposium on Catalysis, 7 - 09 October 2016
48. **MICROWAVE ASSISTED SYNTHESIS OF Sn PROMOTED DIRECT ETHANOL FUEL CELL Pt CATALYSTS**
ATBAŞ D., ÇAĞLAR A., DEMİR KIVRAK H., KIVRAK A.
48th Symposium on Catalysis, 7 - 09 October 2016
49. **MICROWAVE SYNTHESIZED Pd NANOPARTICLES AND THEIR APPLICATION AS A NON ENZYMATIC HYDROGEN PEROXIDE SENSOR**
ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A., ÇELİK KAZICI H., ALAL O., ATBAŞ D.
48th Symposium on Catalysis, 7 - 09 October 2016
50. **PD BASED CATALYSTS FOR FUEL CELL APPLICATIONS**
ŞAHİN Ö., ÖZKAN E., DEMİR KIVRAK H., ALAL O., AHMETLİ G.
International Conference on Advanced Technology & Sciences (ICAT'16), 1 - 03 September 2016
51. **SYNTHESIS AND ELECTROCHEMICAL STUDY OF M Pd CORE SHELL NANOMATERIALS FOR NON ENZYMATIC HYDROGEN PEROXIDE SENSOR**
ÇELİK KAZICI H., SALMAN F., DEMİR KIVRAK H.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016
52. **SYNTHESIS AND CHARACTERIZATION OF Ag PROMOTED Pd NANOPARTICLES AND THEIR ENHANCED ETHANOL ELECTROOXIDATION ACTIVITY**
ÇAĞLAR A., ALAL O., DEMİR KIVRAK H., ŞAHİN Ö., KIVRAK A.
Chemistry and Chemical Technology, 28 - 29 April 2016
53. **Ni PROMOTED Pd ETHANOL ELECTROOXIDATION CATALYSTS**
KOR Z., ÇAĞLAR A., DEMİR KIVRAK H., KIVRAK A., ŞAHİN Ö.
Chemistry and Chemical Technology, 28 - 29 April 2016
54. **Carbon Supported Pd Ni Nanocatalysts For Ethanol Oxidation In Alkaline Environment**
SALMAN F., ALAL O., DEMİR KIVRAK H., ÇELİK KAZICI H.
Nanotr 11, June 22-25, 2015, ANKARA, Turkey, 22 - 25 June 2015
55. **Carbon Supported Pd Ni Nanoparticles For Non Enzymatic Hydrogen Peroxide Sensor**
SALMAN F., ALAL O., DEMİR KIVRAK H., ÇELİK KAZICI H.

Nanotr 11, June 22-25, 2015, ANKARA, Turkey, 22 - 25 June 2015

56. **Enhanced Ethanol Electrooxidation Activity On Carbon Supported Pd Ag Nanoparticles**
SALMAN F., ALAL O., DEMİR KIVRAK H., ÇELİK KAZICI H.
Nanotr 11, June 22-25, 2015, ANKARA, Turkey, 22 - 25 June 2015
57. **Synthesis And Characterization Of Carbon Nanotube Supported Pdau Formic Acid Electrooxidation Anode Catalysts**
ATBAŞ D., ÇİÇEK F., MÜCAHİT T., DEMİR KIVRAK H.
1 St International Congress On Engineering And Natural Science, May 15-19, 2015, 15 - 19 May 2015
58. **Electrochemical Detection Of Hydrogen Peroxide Based On Pt Mno₂ C Nanocomposite**
ALAL O., DEMİR KIVRAK H.
1 St International Congress On Engineering And Natural Science, May 15-19, 2015, 15 - 19 May 2015
59. **Enhanced Formic Acid Electrooxidation Activity Of Carbon Nanotube Supported Coaupd Catalysts**
ALAL O., DEMİR KIVRAK H.
1 St International Congress On Engineering And Natural Science, May 15-19, 2015, 15 - 19 May 2015
60. **Pd ve Pd Au metal katalizörlerinin hidrojen peroksit sensörü olarak kullanılması**
ALAL O., DEMİR KIVRAK H., ÇELİK KAZICI H., SAHİN O.
3. ULUSAL KİMYA MÜHENDİSLİĞİ ÖĞRENCİ KONGRESİ (UKMÖK), Turkey, 2 - 04 May 2015
61. **Facile rapid synthesis of microwave assisted Pd nanoparticles for non enzymatic hydrogen peroxide sensor**
ÇELİK KAZICI H., ALAL O., ATBAŞ D., DEMİR KIVRAK H., GÖKDOĞAN SAHİN O., KIVRAK A.
1st International Conference on Organic Electronic Material Technologies (OEMT2015), 25 - 28 March 2015
62. **Synthesis Of A Novel Acceptor Anthracene Acceptor Conjugated Molecule And Its Electronic Properties**
ZOBİ C., ER Ö. F., DEMİR KIVRAK H., KIVRAK A., GUMUS S.
Anatolian Conference On Synthetic Organic Chemistry, 16 - 19 March 2015
63. **Synthesis and Spectroscopic Studies of Anthracene Based Small Organic Molecules**
GÜNKUT S., DEMİR KIVRAK H., KIVRAK A., GÜMÜŞ S.
Anatolian Conference on Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015
64. **Design Synthesis And Spectroscopic Studies Of Anthracene Based Small Organic Molecules**
GUNKUT S., DEMİR KIVRAK H., KIVRAK A., GUMUS S.
Anatolian Conference On Synthetic Organic Chemistry, 16 - 19 March 2015
65. **Design of Novel Thienocarbazole Derivatives COST ACTION CM1307 1rst CONFERENCE CaPF joint meeting**
KIVRAK A., DEMİR KIVRAK H.
COST ACTION CM1307 1rst CONFERENCE/ CaPF joint meeting, Cali, Colombia, 27 - 29 October 2014
66. **Karbon destekli Pt Sn Doğrudan beslemeli etanol yakıt pili katalizörü üzerinde etanol elektrokimyasal kinetiğinin incelenmesi**
ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014
67. **3 Aminopropyltrimethoxysilane ile fonksiyonelleştirilmiş mezo gözenekli silikanın elektrokimyasal ağır metal sensörü olarak kullanılması**
ALAL O., ALPAR N., CAN M., DEMİR KIVRAK H.
UKMK 11 (11. Ulusal Kimya Mühendisliği Kongresi), Turkey, 2 - 05 September 2014
68. **Çekirdek Kabuk yapısına sahip Metanol Elektro oksitleme Pt Ru Nano Katalizörlerinin Sentezi ve Geliştirilmesi**
DEMİR KIVRAK H., çiçek f., nazlı n., ŞAHİN Ö., KIVRAK A.
11. Ulusal Kimya Mühendisliği Kongresi , Eskişehir, Turkey, 2 - 05 September 2014
69. **Karbon nanotüplerin elektrokimyasal ağır metal sensörü olarak kullanılması ve adsorpsiyon kinetiğinin incelenmesi**
ALAL O., ALPAR N., CAN M., DEMİR KIVRAK H.
UKMK 11 (11. Ulusal Kimya Mühendisliği Kongresi), Turkey, 2 - 05 September 2014

70. **Karbon nanotüplerin elektrokimyasal ağır metal sensörü olarak kullanılması ve adsorpsiyon kinetiğinin incelenmesi**
erol s., ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014
71. **Detection of Hydrogen Peroxide by Platinum based Bimetallic Catalysts**
SAHİN O., DEMİR KIVRAK H.
2nd Annual International Conference on Chemistry, 21 - 24 July 2014
72. **Methanol Electro Oxidation Study on CNT Supported Pt Ru Direct Methanol Fuel Cells Anode Catalyst**
SAHİN O., DEMİR KIVRAK H.
2nd Annual International Conference on Chemistry, 21 - 24 July 2014
73. **Carbon supported Pt M M Ag Ca Cd Cs Cu Fe Ir Mg Pd Ru Zr nanocatalysts A Novel approach for alcohol elec trooxidation by using EIS**
demir n. c., DEMİR KIVRAK H., ŞAHİN Ö., KIVRAK A.
10th International Electrochemistry Meeting, Konya, Turkey, 4 - 08 September 2013
74. **Electrochemical impedance study on Pt Ir electrocatalysts for alcohol electrooxidation**
SAHİN O., DEMİR KIVRAK H.
10th International Electrochemistry Meeting, 4 - 08 September 2013
75. **A comparative study of electrochemical methods on Pt Ru dafc anode catalysts**
SAHİN O., DEMİR KIVRAK H.
10th International Electrochemistry Meeting, 4 - 08 September 2013
76. **Carbon supported Pt M nanocatalysts a novel approach for alcohol electrooxidation by using EIS**
SAHİN O., DEMİR KIVRAK H.
10th International Electrochemistry Meeting, 4 - 08 September 2013
77. **Sensitive Voltammetric Detection of Pb II Heavy Metals Using Mesoporous SBA 15 Nafion electrodes**
CAN M., DEMİR KIVRAK H., SAHİN O.
XIth European Congress on Catalysis, 1 - 06 September 2013
78. **Mesoporous silica SBA 15 supported Pt Co Pb catalysts for environmetally friendly ethanol fuel cells**
PEHLİVAN E., KIVRAK A., DEMİR KIVRAK H., SHAHRIARI M.
International Conference of Ecosystems (ICE), 31 May - 05 June 2013
79. **Clean energy direct alcohol fuel cell catalysts with carbon supported binary anode catalysts**
PEHLİVAN E., KIVRAK A., DEMİR KIVRAK H., SHAHRIARI M.
International Conference of Ecosystems (ICE), 31 May - 05 June 2013
80. **A photocatalytic methanol oxidation study over TiO₂ for clean environment**
PEHLİVAN E., KIVRAK A., DEMİR KIVRAK H., SHAHRIARI M.
International Conference of Ecosystems (ICE), 31 May - 05 June 2013
81. **The assesment on the use of environmentally friendly cars**
PEHLİVAN E., KIVRAK A., DEMİR KIVRAK H., SHAHRIARI M.
International Conference of Ecosystems (ICE), 31 May - 05 June 2013
82. **Risk Assesment of Organic Solvents Effects for the human health and environment**
PEHLİVAN E., KIVRAK A., DEMİR KIVRAK H., SHAHRIARI M.
International Conference of Ecosystems (ICE), 31 May - 05 June 2013
83. **Anthracene Substituted Thiophene Derivatives And Their Applications**
KIVRAK A., DEMİR KIVRAK H.
International Conference of Ecosystems (ICE2013) Tirana, tirana, Albania, 31 May - 05 June 2013
84. **Organic Solvents And Their Effects On Human And The Environment A Case Study**
DEMİR KIVRAK H., mohammad s., PEHLİVAN E., KIVRAK A.
International Conference of Ecosystems (ICE2013) Tirana, tirana, Albania, 31 May - 05 June 2013
85. **PtRu and PtSn Electrocatalysts For DAFCs The Effect Of Iridium Addition**
SAHİN O., DEMİR KIVRAK H., KIVRAK A.
3rd PAK-TURK Conference, 13 - 15 September 2012
86. **Electrochemical impedance study on novel CNT structures as a catalyst support for direct methanol**

fuel cells

DEMİR KIVRAK H., SAHİN O., SCHNEIDER J. J.

3rd PAK-TURK Conference, 13 - 15 September 2012

87. **3 ethinil tiyofen türevlerinin sentezi optiksel ve elektrokimyasal özellikleri**
KIVRAK A., DEMİR KIVRAK H., SAHİN Ö.
IV. Ulusal Polimer Bilim ve Teknoloji kongresi, Turkey, 5 - 08 September 2012
88. **Photo catalytic Hydrogen Production for a Clean Environment**
DEMİR KIVRAK H., ŞAHİN Ö., düzenli d., KIVRAK A.
International Conference of Ecosystems (ICE) Tirana, tirana, Albania, 1 - 06 June 2012
89. **Environmentally friendly direct methanol fuel cell with carbon supported Pt Ru anode catalyst**
SAHİN O., DEMİR KIVRAK H.
International conference of ecosystems, 1 - 06 June 2012
90. **The effect of Ru addition on Methanol electro oxidation reaction**
DEMİR KIVRAK H., KULİYEV S.
EuropaCat X, 28 August - 02 September 2011
91. **selective oxidation of CO in excess hydrogen over Pt and Pt Sn supported by Al₂O₃ catalyts**
BAYAR İ., DEMİR KIVRAK H., ÜNER D.
EnCAMP 2011 (Energy Challenges for Advanced Materials and Processes: Harvesting, Storage and Efficient Utilization Conference), Turkey, 25 - 29 May 2011
92. **The effect of tin addition on ethanol electro oxidation reaction**
DEMİR KIVRAK H., KULİYEV S., ÜNER D.
6th summer school, catalysis and surface sciences fro renewables and energy, 13 - 19 September 2010
93. **TiO₂ Carbon Nanotube Structures for Photoelectrocatalysis**
ÜNER D., DEMİR KIVRAK H., TEMPEL H., KULİYEV S., SCHNEIDER J. J.
OCAT 6/APCAT 5, The Sixth Tokyo Conference on Advanced Catalytic Science and Technology & The Fifth Asia Pacific Congress on Catalysis, 18 - 23 July 2010
94. **TiO₂ Carbon Nanotube Structures for Electrocatalysis**
DEMİR KIVRAK H., TEMPEL H., KULİYEV S., SCHNEIDER J. J., ÜNER D.
NCC 3 (Third National Catalysis Congress), Turkey, 28 April - 01 May 2010
95. **A Hyride Precursor Deposition Method Application Cu deposition on Ti**
DEMİR KIVRAK H., HEBERT K.
EMCC-6 Chemical Engineering Solutions to Critical Problems of the 21st Century, 7 - 12 March 2010
96. **Preferential CO oxidation over Pt Sn catalyts**
DEMİR KIVRAK H., OZORAN I., ÜNER D.
ECASIA 09 13th European Conference on Applications of Surface and Interface Analysis, 18 - 23 October 2009
97. **The Role of Sn Addition in Relation to Defects on Ethanol Electro Oxidation Reaction over Pt C catalyts**
DEMİR KIVRAK H., KULİYEV S., ÜNER D.
ECASIA 09, 13th european conference applications of surface and interface analysis, 18 - 23 October 2009
98. **Investigations on A Green Catalyst Pt SnO₂ C for Direct Ethanol Fuel Cells**
DEMİR KIVRAK H., KULİYEV S., ÜNER D.
Global Conference on Global Warming (GCGW), 5 - 09 July 2009
99. **Polyol metodu ile hazırlanan Pt C katalizör parçacık boyutunun etanol elektro oksitelenme tepkimesine olan etkilerinin belirlenmesi**
DEMİR KIVRAK H., ÜNER D.
23. Ulusal Kimya Kongresi, Turkey, 16 - 20 June 2009
100. **Synthesis and characterization of carbon supported Pt Sn and Pt SnO₂ catalyts and investigation the effect of oxide phase in ethanol electro oxidation reaction**
DEMİR KIVRAK H., KULİYEV S., ÜNER D.
AIChE 2008 annual meeting, 16 - 21 November 2008
101. **Structural Characterization and Activity for Ethanol Electro oxidation of Carbon Supported Pt Sn**

Bimetallic Catalysts Prepared by Polyol Method

DEMİR KIVRAK H., KULİYEV S., ÜNER D.

NCC 2 (Second National Catalysis Congress), Turkey, 18 - 21 June 2008

102. **What are the active sites of a commercial 5 Pt Al₂O₃ catalyst in liquid phase reactions**
DEMİR KIVRAK H., ÜNER D., KIRALY Z., MASTALIR A.
NCC 2, Turkey, 18 - 21 June 2008
103. **Mechanism Elucidation of the Ethanol Electro oxidation Reactions on Pt Sn catalysts**
DEMİR KIVRAK H., ÜNER D.
EuropaCat VIII, 26 - 31 August 2007
104. **Etanol Elektro Oksidasyon Reaksiyonlarında Kullanılan İki Metalli Pt Sn Katalizörlerinin Sentezlenmesi Ve Karakterizasyonu**
DEMİR KIVRAK H., ÜNER D.
UKMK 7, Turkey, 5 - 08 September 2006
105. **Microcalorimetric studies to investigate the effect of Sn addition to elucidate CO poisoning on Al₂O₃ supported Pt Sn catalysts**
DEMİR KIVRAK H., ÜNER D.
NanoTR II, Turkey, 3 - 05 May 2006
106. **Microcalorimetric characterization of sol gel prepared SiO₂ supported Pd and ZnO catalysts**
DEMİR KIVRAK H., ŞEKER E., ÜNER D.
Europacat VII, 28 August - 01 September 2005
107. **Steam Reforming of Ethanol over Sol Gel Synthesized Mixed Oxide Catalysts**
OLCAY H. O., DEMİR KIVRAK H., ŞEKER E., ÜNER D.
19th North American Catalysis Society Meeting (19th NACS), 22 - 27 May 2005
108. **Sol jel ile Hazırlanmış karışık oksit katalizörler üzerinde etanolün buhar riformlaması**
OLCAY H. O., DEMİR KIVRAK H., ŞEKER E., ÜNER D.
UKMK 6 (6. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ), Turkey, 7 - 10 September 2004

Academic and Administrative Experience

2023 - Continues	Scientific Award Committee Member	Eskisehir Osmangazi University, REKTÖRLÜK, REKTÖRLÜK
2022 - Continues	Assistant Coordinator	Eskisehir Osmangazi University, REKTÖRLÜK, AR-GE KOORDİNATÖRLÜĞÜ FEN BİLİMLERİ SORUMLUSU
2022 - Continues	Department Academic Incentive Evaluation Commission Member	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
2022 - Continues	BÖLÜM ARGE KOORDİNATÖRÜ	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
2021 - Continues	Danışma Kurulu Üyesi	Eskisehir Osmangazi University, REKTÖRLÜK, Akciğer ve Plevra Kanserleri Uygulama ve Araştırma Merkezi
2021 - Continues	Adaptation/Exemption Committee Member	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
2021 - Continues	Applied Research Center Board Member	Eskisehir Osmangazi University, REKTÖRLÜK, TRANSLASYONEL TIP UYGULAMA VE ARAŞTIRMA MERKEZİ

2022 - 2022	Fen Bilimleri Enstitüsü Tez Yazım Kılavuzu	Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü
2022 - 2022	Hazırlama Komisyonu Chairman of the Scientific Award Committee	Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü
2017 - 2021	Head of Department	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
2016 - 2019	Faculty Board Member	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
2016 - 2019	Institute Board Member	Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli)
2016 - 2019	Head of Department	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
2017 - 2018	Department Academic Incentive Evaluation Commission Chairperson	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
2015 - 2016	Deputy Head of Department	Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Courses

KİMYASAL TEPKİME MÜHENDİSLİĞİ II (A), Undergraduate, 2023 - 2024
 Kimyasal Reaksiyon Mühendisliği , Undergraduate, 2023 - 2024
 SEMINAR, Postgraduate, 2022 - 2023
 KİMYA MÜHENDİSLİĞİNDE TASARIM II (D), Undergraduate, 2022 - 2023
 UZMANLIK ALAN DERSİ (YL)(S), Postgraduate, 2022 - 2023
 YÜKSEK LİSANS TEZ ÇALIŞMASI (U), Postgraduate, 2023 - 2024
 MÜHENDİSLİK ARAŞTIRMALARINA HAZIRLIK (U), Undergraduate, 2023 - 2024
 ALTERNATİF YAKIT KAYNAKLARI ARAŞTIRMASI (A), Undergraduate, 2022 - 2023
 KİMYASAL TEPKİME MÜHENDİSLİĞİ I, Undergraduate, 2022 - 2023
 KİMYASAL TEPKİME MÜHENDİSLİĞİ II, Undergraduate, 2022 - 2023
 SEMİNER (S), Postgraduate, 2022 - 2023
 BİLİM FELSEFESİ VE DİPLOMASİSİ (A), Postgraduate, 2023 - 2024
 NANOMATERIAL CHARACTERIZATION (A), Postgraduate, 2023 - 2024
 KİMYASAL TEPKİME MÜHENDİSLİĞİ I (B), Undergraduate, 2022 - 2023
 UZMANLIK ALAN DERSİ (YL) (U), Postgraduate, 2023 - 2024
 YÜKSEK LİSANS TEZ ÇALIŞMASI (S), Postgraduate, 2022 - 2023
 NANOMALZEME KARAKTERİZASYONU, Postgraduate, 2023 - 2024
 İleri Kimyasal Reaksiyon Mühendisliği, Postgraduate, 2021 - 2022
 Reaktör Tasarımı, Undergraduate, 2021 - 2022
 Proses Kontrol , Undergraduate, 2022 - 2023
 KİMYASAL TEPKİME MÜHENDİSLİĞİ I (A), Undergraduate, 2021 - 2022
 SEMİNER (R), Postgraduate, 2021 - 2022
 KİMYA MÜHENDİSLİĞİNDE TASARIM II (D), Undergraduate, 2021 - 2022

ALTERNATİF YAKIT KAYNAKLARI ARAŞTIRMASI (A), Undergraduate, 2021 - 2022
KİMYASAL TEPKİME MÜHENDİSLİĞİ II (A) , Undergraduate, 2021 - 2022
Polimer Bilimi ve Teknoloji, Undergraduate, 2021 - 2022
MÜHENDİSLİK ARAŞTIRMALARINA HAZIRLIK (A), Undergraduate, 2021 - 2022
MÜHENDİSLİK EKONOMİSİ, Undergraduate, 2021 - 2022
Nanoteknoloji, Undergraduate, 2021 - 2022
KİMYA MÜHENDİSLİĞİ LABORATUVARI III(D), Undergraduate, 2020 - 2021
NANOMALZEME KARAKTERİZASYONU (A), Postgraduate, 2021 - 2022
ALTERNATİF YAKIT KAYNAKLARI ARAŞTIRMALARI(A), Undergraduate, 2020 - 2021
Kimyasal Reaksiyon Mühendisliği, Undergraduate, 2021 - 2022
Kimya Mühendisliği Tasarım II C, Undergraduate, 2020 - 2021
YAKIT PİLİ KATALİZÖRLERİ, Postgraduate, 2021 - 2022
KİMYA MÜHENDİSLİĞİNDE TASARIM I (C), Undergraduate, 2021 - 2022
Kimya Mühendisliği Laboratuvarı III (2018-2021), Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Kimyasal Reaksiyon Mühendisliği (2014-2020), Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Kimya Mühendisliği Laboratuvarı II (2014-2020), Undergraduate, 2019 - 2020
Katı Yüzey Kimyası (2013-2021), Undergraduate, 2019 - 2020
Taşınım Olayları II (2018-2020), Postgraduate, 2019 - 2020, 2018 - 2019
Kimya Mühendisliği Laboratuvarı I (2015-2020), Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Taşınım Olayları I (2018-2021), Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Çevre İçin Nanokatalizörler (2014-2020), Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Lisans Araştırma Projesi (2014-2020), Undergraduate, 2019 - 2020
Heterojen Katalizör Sistemleri (2015-2016, 2019-2020), Undergraduate, 2019 - 2020, 2015 - 2016
Kimya Mühendisliği Tasarımı I (2019-2021), Undergraduate, 2020 - 2021, 2019 - 2020
İleri Reaksiyon Mühendisliği (2014-2021), Postgraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Uygulamalı Sayısal Çözümleme (2019-2020), Undergraduate, 2019 - 2020
Reaktör Tasarımı (2018-2021), Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Akışkanlar Mekaniği (Gıda Müh., 2018-2021), Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Yakıt Pili Katalizörleri (2019-2020), Postgraduate, 2019 - 2020
Isı ve Kütle Aktarımı (2016-2020), Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Katalizörler ve Katalitik Reaksiyonlar (2018-2018), Undergraduate, 2018 - 2019
Petrokimya Katalizörleri (2014-2017), Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Kimyasal Tepkime Mühendisliği (Gıda Müh., 2016-2017), Undergraduate, 2015 - 2016
Staj I (2013-2016), Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
Kütle ve Enerji Denklikleri II (2013-2015), Undergraduate, 2014 - 2015, 2013 - 2014
Akışkanlar Mekaniği (2013-2015), Undergraduate, 2014 - 2015, 2013 - 2014
Temel Elektrokimya (2013-2014), Undergraduate, 2014 - 2015
Kütle ve Enerji Denklikleri I (2014-2015), Undergraduate, 2014 - 2015
Matematiksel Modelleme (2014-2015), Undergraduate, 2014 - 2015
Proses Kontrol (2013-2015), Undergraduate, 2013 - 2014
Staj II (2013-2014), Undergraduate, 2013 - 2014
CHEMICAL ENGINEERING LABORATORY III (2003-2010) TA, Undergraduate, 2009 - 2010
INTRODUCTION TO CHEMICAL ENGINEERING (2009-2010) TA, Undergraduate, 2009 - 2010
THERMODYNAMICS I (2008-2009) TA, Undergraduate, 2008 - 2009
CHEMICAL ENGINEERING LABORATORY II (2003-2009) TA, Undergraduate, 2009 - 2010
CHEMICAL ENGINEERING LABORATORY I (2006-2007) TA, Undergraduate, 2006 - 2007
CHEMICAL REACTION ENGINEERING (2004-2006, 2008-2009) TA, Undergraduate, 2004 - 2005

CHEMICAL ENGINEERING MATHEMATICS (2004-2005) TA, Postgraduate, 2004 - 2005

ADVANCED CHEMICAL REACTION ENGINEERING (2004-2005) TA, Postgraduate, 2004 - 2005

Advising Theses

- Demir Kıvrak H., Aktaş N., Aminoasit tayininde kullanılacak olan yeni polimer temelli malzemelerin sentezi, Doctorate, K.Selçuk(Student), Continues
- Demir Kıvrak H., Yeni nesil katalizörlerin hazırlanması ve metanoliz ile hidrojen üretiminin araştırılması, Postgraduate, C.SAKA(Student), Continues
- Demir Kıvrak H., Yeni Nesil Poli(N-isopropylacrylamid) ve Poli(akrilik asit) Temelli kompozit Elektrotların Hazırlanması ve Süperkapasitör Uygulamaları, Postgraduate, D.ALOVN(Student), Continues
- Demir Kıvrak H., CdM (S, Se, Te) bimetalik kuantum nokta yapıların sentezi ve foto-elektrokimyasal glikoz elektrokoksitleme uygulamaları, Doctorate, A.Çağlar(Student), 2022
- Demir Kıvrak H., Farklı kanser belirteçlerinin yeni nanomalzeme temelli elektrokimyasal immunosensörler aracılığı ile yüksek duyarlılıkta belirlenmesi, Doctorate, Ö.FARUK(Student), 2022
- Demir Kıvrak H., PEM Yakıt Pilleri için Anot Katalizör ve Membran Sentezi, Karakterizasyonu ve Yakıt Pili Performans Testleri, Doctorate, B.Ulaş(Student), 2021
- Demir Kıvrak H., Synthesis and characterization of polymer based catalysts and their formic acid electrooxidation activities, Postgraduate, S.KHALID(Student), 2021
- Demir Kıvrak H., Ru temelli geliştirilen bazı katalizörlerin NABH₄'ün hidrolizinde kullanılması ve elektrokoksitleme katalitik aktivitelerinin belirlenmesi, Doctorate, T.AVCI(Student), 2021
- Demir Kıvrak H., PHOTOCATALYTIC WATER REMEDIATION ON NANO DESIGNED CATALYSTS , Postgraduate, D.Ibrahim(Student), 2021
- Demir Kıvrak H., Karbon nanotüp destekli Pd, In ve Sn katalizörlerin sentezi, karakterizasyonu ve hidrazin elektro yükseltgenme sisteminin dinamik modellenmesi, Postgraduate, A.CAVAK(Student), 2020
- Demir Kıvrak H., Yüksek aktiviteye sahip cnt destekli pd-zn katalizörünün formik asit elektrokoksitleme aktivitesinin incelenmesi, Postgraduate, Y.YILMAZ(Student), 2020
- Demir Kıvrak H., Amonyak boran hidrolizinden hidrojen eldesi için uygun katalizörlerin sentezi karakterizasyonu ve optimizasyonu, Postgraduate, F.YILDIZ(Student), 2019
- 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
- Demir Kıvrak H., Enzimsiz hidrojen peroksit sensörlerinin geliştirilmesi, Postgraduate, O.ALAL(Student), 2019
- Demir Kıvrak H., Multimetalli nanokatalizörlerin sentezi karakterizasyonu ve glukoz sensör etkisinin elektrokimyasal incelenmesi, Postgraduate, F.SALMAN(Student), 2019
- Demir Kıvrak H., Cvd tekniğiyle hazırlanmış grafen sentezi, karakterizasyonu ve glikoz oksidasyonunun incelenmesi, Postgraduate, A.ÇAĞLAR(Student), 2018
- Demir Kıvrak H., Formik asit yakıt pili sisteminde kullanılan CoAuPd katalizörlerin elektrobiriktirme yöntemi ile sentezi ve karakterizasyonu, Postgraduate, Ç.AVCI(Student), 2018
- Demir Kıvrak H., Microwave assisted n-hexane reforming on Pt-based catalyst, Postgraduate, M.Ali(Student), 2017
- Kıvrak A., Demir Kıvrak H., Microwave assisted n-hexane reforming on Pt-based catalyst, Postgraduate, M.ALI(Student), 2017
- Demir Kıvrak H., Risk and detection of toxic gases hydrogen sulfide (H₂S) and carbon monoxide (CO) from refinery in erbil, Postgraduate, R.ALI(Student), 2017
- Demir Kıvrak H., KIVRAK A., Güneş pilleri için tasarlanan organik malzemelerin yeni katalizörler ile sentezi, Postgraduate, Ö.FARUK(Student), 2017
- Demir Kıvrak H., Formik asit elektroyükseltgenmesi için hazırlanan karbon nanotüp destekli CoAuPd nanokatalizörlerinin sentezi ve karakterizasyonu, Postgraduate, D.ATBAŞ(Student), 2016

Student Project

R & D Project, TÜBİTAK 2209 B Atık kumaşdan üretilen aktif karbon destekli katalizörlerin Hidrojen peroksit yakıt pili uygulamaları, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey, 2023 - 2024

R & D Project, TÜBİTAK 2209 A-Elektrokimyasal su ayrışması performansı için geliştirilmiş katalizör olarak CNT kullanılması, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey, 2023 - 2024

R & D Project, TÜBİTAK 2209 A Sodyum borhidrür metanolizinden hidrojen üretimi için katalizör olarak metal içermeyen zeolit/aktif karbon kompozit sentezi ve karakterizasyonu, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey, 2023 - 2024

R & D Project, TÜBİTAK 2209 A Fotokatalitik Hidrojen peroksit yakıt pili için yeni nesil katalizörlerin araştırılması, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey, 2022 - 2023

Activities in Scientific Journals

TURKISH JOURNAL OF CHEMISTRY, Committee Member, 2023 - Continues

Frontiers in Catalysis, Assistant Editor/Section Editor, 2022 - Continues

Manas Journal of Engineering, Committee Member, 2022 - Continues

General Chemistry, Committee Member, 2020 - Continues

American Journal of Material Science and Engineering, Committee Member, 2015 - Continues

Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, November 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, November 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, November 2022

TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, TÜBİTAK, Turkey, October 2022

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, June 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, June 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, June 2021

ACS APPLIED ENERGY MATERIALS, Journal Indexed in SCI-E, June 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, May 2021

Manas Journal of Engineering, Other Indexed Journal, May 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, May 2021

CURRENT NANOSCIENCE, Journal Indexed in SCI-E, May 2021

Energy Storage, Journal Indexed in ESCI, May 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, May 2021

RENEWABLE ENERGY, SCI Journal, January 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, December 2020

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, November 2020

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, November 2020

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, November 2020

RENEWABLE ENERGY, SCI Journal, August 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, June 2020

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, May 2020

APPLIED ORGANOMETALLIC CHEMISTRY, Journal Indexed in SCI-E, May 2020

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, May 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, April 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, March 2020

RENEWABLE ENERGY, SCI Journal, March 2020

RENEWABLE ENERGY, SCI Journal, March 2020

RENEWABLE ENERGY, SCI Journal, March 2020

RENEWABLE ENERGY, SCI Journal, February 2020

RENEWABLE ENERGY, SCI Journal, February 2020

RENEWABLE ENERGY, SCI Journal, February 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, February 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, February 2020

RENEWABLE ENERGY, SCI Journal, February 2020

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2020

ACS APPLIED MATERIALS & INTERFACES, Journal Indexed in SCI-E, January 2020

RSC ADVANCES, Journal Indexed in SCI-E, January 2020

IONICS, Journal Indexed in SCI-E, January 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, January 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, January 2020

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, Journal Indexed in SCI-E, January 2020

RENEWABLE ENERGY, SCI Journal, January 2020

RENEWABLE ENERGY, SCI Journal, January 2020

Journal of Environmental Chemical Engineering, Journal Indexed in ESCI, January 2020

ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, January 2020

RENEWABLE ENERGY, SCI Journal, November 2019

RENEWABLE ENERGY, National Scientific Refreed Journal, November 2019

RENEWABLE ENERGY, SCI Journal, October 2019

RENEWABLE ENERGY, SCI Journal, October 2019

RENEWABLE ENERGY, SCI Journal, October 2019

RENEWABLE ENERGY, SCI Journal, October 2019

RENEWABLE ENERGY, SCI Journal, October 2019

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, October 2019

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, August 2019

RENEWABLE ENERGY, SCI Journal, August 2019

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, July 2019

RENEWABLE ENERGY, SCI Journal, July 2019

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, July 2019

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, June 2019
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, June 2019
RENEWABLE ENERGY, SCI Journal, May 2019
RENEWABLE ENERGY, SCI Journal, May 2019
RENEWABLE ENERGY, National Scientific Refreed Journal, May 2019
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, April 2019
RENEWABLE ENERGY, SCI Journal, March 2019
JOURNAL OF POROUS MATERIALS, Journal Indexed in SCI-E, January 2019
ULTRASONICS SONOCHEMISTRY, Journal Indexed in SCI-E, January 2019
VACUUM, Journal Indexed in SCI-E, January 2019
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, June 2018
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, April 2015
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, March 2015
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2015
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, December 2014
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, September 2014
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, December 2013
APPLIED CATALYSIS B-ENVIRONMENTAL, Journal Indexed in SCI-E, November 2013
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, October 2013

Tasks In Event Organizations

Demir Kıvrak H., Ar-Ge Koordinatörlüğü Tematik Alan Çalıştayı, Workshop Organization, Turkey, Ocak 2023

Scientific Research / Working Group Memberships

Yenilenebilir Enerji Kaynakları, Eskisehir Osmangazi University, Türkiye, <https://avesis.ogu.edu.tr/arastirma-grubu/yenener>, 2021 - Continues
Katalizör Araştırma Ve Geliştirme, Eskisehir Osmangazi University, Türkiye, <https://avesis.ogu.edu.tr/arastirma-grubu/alv/grup-uyeleri>, 2021 - Continues
Katıların Karakterizasyonu, Eskisehir Osmangazi University, Türkiye, <https://avesis.ogu.edu.tr/arastirma-grubu/kkal>, 2021 - Continues
Polimer Sentezi, Polimer Kompozit Ve Biyomalzeme Geliştirme Araştırma Grubu, Eskisehir Osmangazi University, Türkiye, <https://avesis.ogu.edu.tr/arastirma-grubu/polcombio/grup-uyeleri>, 2021 - Continues
Nanotechnology In Sensors, Energy, And Medical Research Group, Eskisehir Osmangazi University, Türkiye, <https://avesis.ogu.edu.tr/arastirma-grubu/nanotechsem>, 2015 - Continues
European Union Cost Action Ca20127 - Waste Biorefinery Technologies For Accelerating Sustainable Energy Processes (Wire) Wg 1, Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA20127/#tabs+Name:Working%20Groups%20and%20Membership>, 2021 - 2025
European Union Cost Action Ca20127 - Waste Biorefinery Technologies For Accelerating Sustainable Energy Processes (Wire) Wg 4, Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA20127/#tabs+Name:Working%20Groups%20and%20Membership>, 2021 - 2025
European Union Cost Action Ca19118 - High-Performance Carbon-Based Composites With Smart Properties For Advanced Sensing Applications (Essence) Wg4, Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA19118/#tabs+Name:Management%20Committee>, 2021 - 2024
European Union Cost Action Ca19118 - High-Performance Carbon-Based Composites With Smart Properties For Advanced Sensing Applications (Essence) Wg3, Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA19118/#tabs+Name:Management%20Committee>, 2021 - 2024
European Union Cost Action Ca15107 - Multi-Functional Nano-Carbon Composite Materials Network (Multicomp) Wg4,

Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA15107/>, 2017 - 2020
European Union Cost Action Ca15107 - Multi-Functional Nano-Carbon Composite Materials Network (Multicomp) Wg3,
Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA15107/WG3>, 2017 - 2020
European Union Cost Action Ca15107 - Multi-Functional Nano-Carbon Composite Materials Network (Multicomp)
Management Committee Member, Eskisehir Osmangazi University, Türkiye, <https://www.cost.eu/actions/CA15107/>, 2017
- 2020

Metrics

Publication: 283
Citation (WoS): 1562
Citation (Scopus): 2291
H-Index (WoS): 22
H-Index (Scopus): 25

Invited Talks

Cumhuriyetin 100. Yılında Genç Kadın Bilim İnsanlarının Başarısına UNESCO - L'ORÉAL Bilim Kadınları İçin Burs Programının Katkısı, Workshop, UNESCO Türkiye Millî Komisyonu, Turkey, December 2023
The 2nd Hydrogen Forum, Seminar, Bartın Üniversitesi, Turkey, June 2023
Bilim ve Teknolojide Lider Kadınlar Zirvesi, Conference, Boğaziçi Üniversitesi, Turkey, April 2023
Ulusal/Uluslararası Başarıları ile İlham Veren Bilim Kadınları Söyleşisi', Seminar, Eskişehir Kent Konseyi Kadın Meclisi, Turkey, April 2023
Digital Green, Conference, Calabria Üniversitesi/ Erasmus KA220 Projesi Uluslararası Aktivite Toplantısı, Italy, March 2023

Research Areas

Chemical Engineering and Technology

Non Academic Experience

Université Paul Sabatier
Université Paul Sabatier: Toulouse III, CNRS, Laboratoire de Synthèse et Physico-Chimie des Molécules d'Intérêt Biologique
Darmstadt Teknik Üniversitesi, İnorganik Kimya Bölümü
Iowa Eyalet Üniversitesi, Kimya ve Biyoloji Mühendisliği
Darmstadt Teknik Üniversitesi, İnorganik Kimya Bölümü