

Asst. Prof. Berdan Ulaş

Personal Information

Email: berdanulas@yyu.edu.tr
Web: <https://avesis.yyu.edu.tr/berdanulas>

International Researcher IDs

ORCID: 0000-0003-0650-0316
Yoksis Researcher ID: 252261

Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2016 - 2021
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2012 - 2015
Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, PEM yakıt pilleri için anot katalizör ve membran sentezi, karakterizasyonu ve yakıt pili performans testleri, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 2021
Postgraduate, Atık sularдан teknik boyasının biyosorpsiyonla giderilmesinin kesikli sistemde incelenmesi, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2015

Research Areas

Chemical Engineering and Technology, Chemical Technologies, Electrochemical Processes, Chemistry, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Highly active polyethylene glycol grafted cellulose supported Pd nanoparticles for glucose electrooxidation**
Ulaş B., Yilmaz Y., GÖK Ö., DEMİR KIVRAK H.
Process Safety and Environmental Protection, vol.185, pp.772-781, 2024 (SCI-Expanded)

- II. **Highly efficient metal free aldehyde-functionalized indoles for direct glucose fuel cell anode catalyst**
Çalış Karatekin H., Ulaş B., Yilmaz Y., DEMİR KIVRAK H., KIVRAK A.
International Journal of Hydrogen Energy, vol.63, pp.635-644, 2024 (SCI-Expanded)
- III. **Novel Ti₃C₂X₂ MXene supported BaMnO₃ nanoparticles as hydrazine electrooxidation catalysts**
Ulaş B., ÇETİN T., KAYA Ş., Akinay Y., DEMİR KIVRAK H.
International Journal of Hydrogen Energy, vol.58, pp.726-736, 2024 (SCI-Expanded)
- IV. **Supported PbHfCd electrocatalysts over carbon-hydroxyapatite composite fabricated by precipitation and NaBH₄ reduction methods for glucose electrooxidation**
Ulaş B., Yilmaz Y., Koç S., DEMİR KIVRAK H.
Journal of Solid State Electrochemistry, vol.27, no.12, pp.3425-3437, 2023 (SCI-Expanded)
- V. **Optimization of electrode preparation conditions by response surface methodology for improved formic acid electrooxidation on Pd/MWCNT/GCE**
Ulaş B.
Ionics, vol.29, no.11, pp.4603-4616, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Structural and photon/neutron attenuation features of PbNi/CNT nanocomposites: An experimental approach**
Yıldız Yorgun N., KAVAZ E., Ulaş B., Yilmaz Y., Kivrak H.
Progress in Nuclear Energy, vol.157, 2023 (SCI-Expanded)
- VIII. **Hydroxyapatite supported PdxIn_{100-x} as a novel electrocatalyst for high-efficiency glucose electrooxidation**
Ulaş B., Yilmaz Y., Koç S., DEMİR KIVRAK H.
International Journal of Hydrogen Energy, vol.48, no.18, pp.6798-6810, 2023 (SCI-Expanded)
- IX. **Development of Effective Bimetallic Electrocatalysts for Glucose Electrooxidation**
Ulaş B., Yilmaz Ürün Y., DEMİR KIVRAK H., ERÜNAL E.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.10, 2022 (SCI-Expanded)
- X. **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)
- XI. **Hydroxyapatite Supported PdxIn_{100-x} as a Novel Electrocatalyst for High Efficiency Glucose Electrooxidation**
Ulaş B., Yilmaz Y., Koç S., Demir Kivrak H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.11, pp.1-11, 2022 (SCI-Expanded)
- XII. **Optimization of Electrode Preparation Conditions for Enhanced Glucose Electrooxidation on Pt/CNT by Response Surface Methodology**
KAYA Ş., Ulaş B., Er O. F., DEMİR KIVRAK H., Yilmaz Y.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.6, pp.2971-2981, 2022 (SCI-Expanded)
- XIII. **Investigation of sulfonation reaction kinetics and effect of sulfonation degree on membrane characteristics for PEMFC performance**
YAĞIZATLI Y., Ulaş B., ŞAHİN A., AR İ.
IONICS, vol.28, no.5, pp.2323-2336, 2022 (SCI-Expanded)
- XIV. **Synthesis of Novel Artemisinin Derivatives and Their Electrochemical Properties**
Esen M., Kavak E., Ozok-Arici O., Ulaş B., DEMİR KIVRAK H., KIVRAK A.
CHEMISTRYSELECT, vol.7, no.19, 2022 (SCI-Expanded)
- XV. **Highly Active RuPd Bimetallic Catalysts for Sodium Borohydride Electrooxidation and Hydrolysis**
KAYA Ş., Yilmaz Y., Er O. F., Alpaslan D., Ulaş B., Erşen Dudu T., DEMİR KIVRAK H.
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.1, pp.403-411, 2022 (SCI-Expanded)

- XVI. **Design of 2-(4-(2-pentylbenzo[b]thiophen-3-yl)benzylidene)malononitrile based remarkable organic catalyst towards hydrazine electrooxidation**
Er O. F., Ulaş B., Ozok O., Kivrak A., Demir Kivrak H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.888, 2021 (SCI-Expanded)
- XVII. **Disentangling the enhanced catalytic activity on Ga modified Ru surfaces for sodium borohydride electrooxidation**
Ulaş B., Alpaslan D., Yilmaz Y., Erşen Dudu T., Er O. F., DEMİR KIVRAK H.
SURFACES AND INTERFACES, vol.23, 2021 (SCI-Expanded)
- XVIII. **A comparative analysis for anti-viral drugs: Their efficiency against SARS-CoV-2**
Kivrak A., Ulaş B., Demir Kivrak H.
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.90, 2021 (SCI-Expanded)
- XIX. **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., DEMİR KIVRAK H.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.4, pp.1173-1189, 2021 (SCI-Expanded)
- XX. **Improved fuel cell properties of Nano-TiO₂ doped Poly(Vinylidene fluoride) and phosphonated Poly(Vinyl alcohol) composite blend membranes for PEM fuel cells**
YAĞIZATLI Y., Ulaş B., Cali A., ŞAHİN A., AR İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35130-35138, 2020 (SCI-Expanded)
- XXI. **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)
- XXII. **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., Demir Kivrak H., Kivrak A.
MATERIALS CHEMISTRY AND PHYSICS, vol.241, 2020 (SCI-Expanded)
- XXIII. **Towards more active and stable PdAgCr electrocatalysts for formic acid electrooxidation: The role of optimization via response surface methodology**
Ulaş B., Çağlar 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)
- XXIV. **Synthesis of in situ N-, S-, and B-doped few-layer graphene by chemical vapor deposition technique and their superior glucose electrooxidation activity**
Çağlar A., Ulaş B., Sahin O., Kivrak H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.14, pp.8204-8216, 2019 (SCI-Expanded)
- XXV. **Synthesis and characterization of Co, Zn, Mn, V modified Pd formic acid fuel cell anode catalysts**
Caglar A., Ulaş B., Cogenli M. S., Yurtcan A. B., Demir Kivrak H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.850, 2019 (SCI-Expanded)
- XXVI. **Biosorption of remazol orange RR from aqueous solution: kinetic, equilibrium and thermodynamic studies**
Ulaş B., Ergun M.
DESALINATION AND WATER TREATMENT, vol.163, pp.366-375, 2019 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **Determination of optimum Pd:Ni ratio for PdxNi100-x/CNTs formic acid electrooxidation catalysts synthesized via sodium borohydride reduction method**
Ulaş B., Çağlar A., Kivrak H.
International Journal of Energy Research, vol.43, no.8, pp.3436-3445, 2019 (SCI-Expanded)
- XXIX. **Development of Nonenzymatic Benzoic Acid Detection on PdSn/GCE/Vulcan XC-72R Prepared via**

Polyol Method

Çelik Kazıcı H., Yayla M., Ulaş B., Aktaş N., Demir Kivrak H.
Electroanalysis, vol.31, pp.1118-1124, 2019 (SCI-Expanded)

- XXX. **Novel activated carbon supported trimetallic PdCoAg nanoparticles as efficient catalysts for the hydrolytic dehydrogenation of ammonia borane**
Çelik Kazıcı H., YILDIZ F., İzgi M. S., Ulaş B., Kivrak H.
International Journal of Hydrogen Energy, vol.44, no.21, pp.10561-10572, 2019 (SCI-Expanded)
- XXXI. **Atomic molar ratio optimization of carbon nanotube supported PdAuCo catalysts for ethylene glycol and methanol electrooxidation in alkaline media**
Ulaş B., Çağlar A., Kivrak A., Kivrak H.
CHEMICAL PAPERS, vol.73, no.2, pp.425-434, 2019 (SCI-Expanded)
- XXXII. **Composition dependent activity of PdAgNi alloy catalysts for formic acid electrooxidation**
Ulaş B., Çağlar A., Sahin O., Kivrak H.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.532, pp.47-57, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Review of Recent Studies Employing Hyperspectral Imaging for the Determination of Food Adulteration**
Temiz H. T., Ulaş B.
Photochem, vol.1, no.2, pp.125-146, 2021 (Peer-Reviewed Journal)
- II. **A review of Pd based multimetallic anode electrocatalysts for direct formic acid fuel cells**
Ulaş B., Demir Kivrak H.
General Chemistry, vol.in press, 2020 (Peer-Reviewed Journal)
- III. **Yüksek Aktiviteye Sahip CNT Destekli Pd-Zn Katalizörünün Formik Asit Elektrooksitlenme Aktivitesinin İncelenmesi**
Yilmaz Y., Er Ö. F., Ulaş B., Demir Kivrak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.2, pp.125-132, 2019 (Peer-Reviewed Journal)
- IV. **Few-layer graphene coated on indium tin oxide electrodes prepared by chemical vapor deposition and their enhanced glucose electrooxidation activity**
Caglar A., Ulaş B., Sahin O., DEMİR KIVRAK H.
ENERGY STORAGE, vol.1, no.4, 2019 (ESCI)
- V. **Karbon Destekli Pd Nanokatalizörü Üzerinde Elektrooksitlenme Parametrelerinin İncelenmesi**
Yilmaz Y., Yurdigül M., Caglar A., Ulaş B., Demir Kivrak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, pp.19-25, 2019 (Peer-Reviewed Journal)
- VI. **A MINI REVIEW ON HEALTH AND ENVIRONMENTAL RISKS OF OIL AND GAS INDUSTRY UNDESIRED PRODUCTS: HYDROGEN SULFIDE AND CARBON MONOXIDE**
Bakır R. A., Ulaş B., Demir Kivrak H.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEEES, vol.7, no.4, pp.883-894, 2017 (ESCI)
- VII. **Doğrudan Metanol Yakıt Pili Karbon Destekli Pt-Ru Anot Katalizörlerinin Sıralı İndirgeme Yöntemi ile Sentezi ve Geliştirilmesi**
Kivrak H., Ulaş B.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.1, pp.21-32, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **3 - Metal-free catalysts for fuel cell applications**
Ulaş B., Yağızathlı Y., Demir Kivrak H.
in: Carbon-Based Metal Free Catalysts Preparation, Structural and Morphological Property and Application,

Abdullah Mohammed Ahmed Asiri, Anish Khan, Showkat Ahmad Bhawani, Bahaa Mohamed Mahmoud Abu-Zied, Suchart Siengchin, Huriya Džudžević-Čančar, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.67-109, 2022

II. Carbon Composites as Metal-Free Catalysts

Kaya Ş., Çağlar A., Avcı Hansu T., Ulaş B., Khan A., Demir Kivrak H.

in: Carbon Composite Catalysts, Dr. Mohammad Jawaid, Dr. Anish Khan, Editor, Springer, London/Berlin , Singapore, pp.131-169, 2022

III. Electrocatalysis Based on Carbon Composite Catalysts

Ulaş B., Kaya Ş., Çağlar A., Özok Ö., Sharif K. H., Kavak E., Kivrak A., Khan A., Demir Kivrak H.

in: Carbon Composite Catalysts, Jawaid Mohammad, Khan Anish, Editor, Springer, London/Berlin , Singapore, pp.371-405, 2022

IV. Chapter 6 - Introduction to other organic fuel-based fuel cells

Ulaş B., Demir Kivrak H.

in: Direct Liquid Fuel Cells Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.137-148, 2021

V. Chapter 7 - Direct formic acid and formate fuel cells (DF(A)FCs)

Ulaş B., Demir Kivrak H.

in: Direct Liquid Fuel Cells Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.149-176, 2021

VI. Bölüm 2: Yakıt Pili Katalizörleri

Gökdoğan Şahin Ö., Ulaş B., Çağlar A., Demir Kivrak H., Aktaş N.

in: Yakıt Pili Katalizörleri, Demir Kivrak H., Editor, Gece Kitaplığı, Ankara, pp.13-37, 2019

VII. Bölüm 1: Yakıt Pillerine Giriş

Gökdoğan Şahin Ö., Ulaş B., Demir Kivrak H.

in: Yakıt Pili Katalizörleri, Demir Kivrak H., Editor, Gece Kitaplığı, Ankara, pp.1-37, 2019

VIII. Bölüm 3: Yakıt Pili Katalizörlerinin Sentezi ve Karakterizasyonu

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

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

Refereed Congress / Symposium Publications in Proceedings

I. Bimetalik Nanokatalizörlerin Sentezi ve Hidrojen Peroksit Sensör Uygulamaları

Yıldırım A., Çelik Kazıcı H., Ulaş B., Demir Kivrak H., Aktaş N.

13. Kimya Mühendisliği Kongresi, Van, Turkey, 03 September 2019 - 06 September 2018, pp.1

II. Design, Synthesis, and Characterization of Au-Based Catalysts for Direct Glucose Fuel Cells

Demir Kivrak H., Ulaş B., Er O. F.

International Engineering and Science Symposium, Siirt, Turkey, 20 - 22 June 2019, pp.329-334

III. Investigation of Formic Acid Electrooxidation Activity of High Activity CNT Supported Pd-Zn Catalyst

Demir Kivrak H., Er Ö. F., Yılmaz Y., Ulaş B.

International Engineering and Science Symposium, Siirt, Turkey, 20 - 22 June 2019, pp.44

IV. SYNTHESIS OF IN-SITU S DOPED FEW LAYER GRAPHENE BY CHEMICAL VAPOR DEPOSITION

TECHNIQUE AND THEIR SUPERIOR GLUCOSE ELECTROOXIDATION ACTIVITY

Demir Kivrak H., Caglar A., Ulaş B., Muhammady S., Sahin O.

International symposium for environmental science and engineering research (ISESER), Konya, Turkey, 25 - 27 May 2019, pp.303-307

V. FEW-LAYER GRAPHENE COATED ON INDIUM TIN OXIDE ELECTRODE PREPARED BY CHEMICAL

VAPOR DEPOSITION AND THEIR ENHANCED GLUCOSE ELECTROOXIDATION ACTIVITY

Demir Kivrak H., Caglar A., Ulaş B., Uygun S., Sahin O.

International symposium for environmental science and engineering research (ISESER), Konya, Turkey, 25 - 27 May 2019, pp.309-314

- VI. **SYNTHESIS OF B DOPED AND IN-SITU B DOPED FEW LAYER GRAPHENE BY CHEMICAL VAPOR DEPOSITION TECHNIQUE FOR HYDROGEN PEROXIDE DETECTION**
Demir Kivrak H., Caglar A., Ulaş B., Nadeesh A., Sahin O.
International symposium for environmental science and engineering research (ISESER), Konya, Turkey, 25 - 27 May 2019, pp.316-321
- VII. **Elektrokimyasal grafen oksit sentezi ve karakterizasyonu; glikoz ve hidrojen peroksit uygulamaları**
Caglar A., Kuliyev S., Demir Kivrak H., Ulaş B.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.6297
- VIII. **Vulcan destekli Paladyum katalizörünün nano tasarım ile sentezi ve doğrudan formik asit yakıt pilinin uygulaması**
Yilmaz Y., Yurdagül M., Caglar A., Ulaş B., Demir Kivrak H.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.6335
- IX. **Pd@Sn Vulcan nanomaterialının gıdalarda koruyucu madde tayininde kullanılması**
Yayla M., Çelik Kazıcı H., Ulaş B., Demir Kivrak H., Aktaş N.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7547
- X. **Erbildeki bir rafineride Hidrojen sülfür ve Karbon monoksit toksik gazlarının belirlenmesi ve risk analizi**
BAKR R. A., Ulaş B., Demir Kivrak H.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7288
- XI. **INVESTIGATION OF Ni ADDITION TO Pd/C: SYNTHESIS, CHARACTERIZATION AND FORMIC ACID ELECTROOXIDATION PERFORMANCE**
Caglar A., Ulaş B., Yilmaz Y., Demir Kivrak H.
International Conference of Ecosystems Tirana, Albania,, Tiran, Albania, 22 - 25 June 2018, pp.1
- XII. **INVESTIGATION OF OPTIMUM ATOMIC RATIO OF PDAGNI TOWARD FORMIC ACID ELECTROOXIDATION ACTIVITY**
Ulaş B., Yilmaz Y., Caglar A., Demir Kivrak H.
International Conference of Ecosystems Tirana, Albania,, Tiran, Albania, 22 - 25 June 2018, pp.1
- XIII. **Carbon nanotube supported Pt, Bi, and Ru; synthesis and ethanol electrooxidation performance**
Caglar A., Demir Kivrak H., Ulaş B., Sahin O., Albouni N.
International symposium for environmental science and engineering research (ISESER), Antalya, Turkey, 11 - 12 May 2018, pp.10
- XIV. **Synthesis and Characterization of PdAgNi/CNT Catalysts for Formic Acid Electrooxidation,**
Çelik Kazıcı H., Ulaş B., Kivrak H., Çağlar A.
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.1
- XV. **Synthesis, Characterization and CO Poisoning Tolerance of PdAgNi/CNT Catalysts**
Çelik Kazıcı H., Ulaş B., Kivrak H., Çağlar A.
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.1
- XVI. **Synthesis And Electrochemical Characterization Of The Pdag/CNT Electrocatalyst**
Çelik Kazıcı H., Ulaş B., Kivrak H., Aktaş N., Çağlar A.
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Macaristan, Hungary, 3 - 07 May 2017, pp.1
- XVII. **Synthesis Of The Pdagco/CNT For Direct Formic Acid Fuel Cell**
Çelik Kazıcı H., Çağlar A., Ulaş B., Kivrak H., Aktaş N.
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Macaristan, Hungary, 3 - 07 May 2017, pp.1
- XVIII. **Co PROMOTED Pd-Au NANOCATALYSTS AND ITS ENHANCED ALCOHOL ELECTROOXIDATION ACTIVITY**
Kivrak H., Ulaş B., Kivrak A.
48th Symposium on Catalysis,, Prag, Czech Republic, 7 - 09 November 2016, vol.-

- XIX. 'Electrocatalytic oxidation of ethylene glycol at MPd (M:Mn, Zn) core shell and alloy bimetallic catalysts'
Ulaş B., Özlem S., Kivrak H., Ebru Ö.
International Nanoscience and nanotechnology for next generation (NaNoNG 2016), Antalya, Turkey, 20 - 22 October 2016
- XX. Synthesis and characterization of microwave assisted Pd nanoparticles as hydrogen peroxide sensor
Ulaş B., Gökdögen Şahin Ö., Kivrak H., Kivrak A., Çelik Kazıcı H., Alal O., Atbaş D.
International Conference on Nanoscience and Nanotechnology for Next Generation (NANONG2016), Antalya, Turkey, 20 - 22 October 2016, pp.1
- XXI. Electrodeposition of CoAuPd nanoparticles on indium tin oxide and investigation of their electroactivity toward the formic acid electrooxidation
Ulaş B., Avci Ç., Kivrak H., Kivrak A.
3st International NANOSCIENCE & NANOTECHNOLOGY FOR NEXT GENERATION (NaNoNG 2016) Conference, Antalya, Turkey, 20 - 22 October 2016, pp.37-0
- XXII. PD BASED CATALYSTS FOR FUEL CELL APPLICATIONS
Ulaş B., Sahin O., Özkan E., Kivrak H., Alal O., Ahmetli G.
International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016

Supported Projects

Ulaş B., Yılmaz Ş., ECER Ü., Project Supported by Higher Education Institutions, Atık Fındık Kabuğundan Elde Edilen Aktif Karbon-Halloysit Nanotüp Destekli CoNi Katalizörlerinin Hidrojen Üretimi ve Süperkapasitör Elektrot Malzemesi Olarak Kullanımının Araştırılması, 2022 - 2023

Demir Kivrak H., Ulaş B., ÇAĞLAR A., Project Supported by Higher Education Institutions, Co Ve Ag Metali Çekirdeği Üzerinde Pd Kabuklandırması İle Çok Metalli Çekirdek/Kabuk Katalizörlerin Nanotasarım İle Sentezi Karakterizasyonu, 2018 - 2021

Demir Kivrak H., Aktaş N., Şahan T., Zengin A., Çelik Kazıcı H., Aldemir A., Alpaslan D., Erşen Dudu T., Ulaş B., Uzun Y., et al., Project Supported by Higher Education Institutions, 13. Ulusal Kimya Mühendisliği Kongresi, 2018 - 2018

Kivrak A., Kivrak H. D., Ulaş B., Project Supported by Higher Education Institutions, 3-Alkinil-2-tiyofen-2-ilbenzobtiyofen Türevlerinin Sentezi ve Elektrokimyasal Özellikleri, 2017 - 2018

Metrics

Publication: 71

Citation (WoS): 312

Citation (Scopus): 333

H-Index (WoS): 12

H-Index (Scopus): 12