

Assoc. Prof. Hilal Demir Kıvrak

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 2003 - 2010

Undergraduate, Eskisehir Osmangazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

French, B1 Intermediate

English, C1 Advanced

Dissertations

Doctorate, Synthesis and Characterization of direct ethanol fuel cell catalysts, Middle East Technical University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, 2010

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2016 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2013 - 2016

Research Assistant PhD, Selcuk University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, 2011 - 2013

Research Assistant, Middle East Technical University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2011

Academic and Administrative Experience

Van Yüzüncü Yıl University, Kimya Mühendisliği Bölümü, 2017 - Continues

Van Yüzüncü Yil University, Mühendislik Fakültesi , Kimya Mühendisliği, 2016 - 2019

Van Yüzüncü Yil University, Kimya Mühendisliği Bölümü, 2016 - 2016

Courses

Katalizörler ve Katalitik Reaksiyonlar, Undergraduate, 2018 - 2019

Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2018 - 2019

Kimyasal Reaksiyon Mühendisliği, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Lisans araştırma projesi, Undergraduate, 2018 - 2019

Taşınım Olayları II, Postgraduate, 2018 - 2019

Çevre İçin Nanokatalizörler, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Kimya Mühendisliği Laboratuvarı III, Undergraduate, 2018 - 2019

Reaktör Tasarımı, Undergraduate, 2018 - 2019

Taşınım Olayları I, Postgraduate, 2018 - 2019

İleri Reaksiyon Mühendisliği, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Isı ve Kütle Aktarımı, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Akışkanlar Mekaniği, Undergraduate, 2018 - 2019

Kimyasal Tepkime Mühendisliği, Undergraduate, 2016 - 2017

Petrokimya Katalizörleri, Postgraduate, 2016 - 2017

Heterojen Katalizör sistemleri, Undergraduate, 2015 - 2016

Katı Yüzey Kimyası, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Petrokimya Katalizörleri, Postgraduate, 2015 - 2016, 2014 - 2015

Kütle ve Enerji Denklikleri II, Undergraduate, 2014 - 2015, 2013 - 2014

Staj I, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Staj II, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Proses Kontrol, Undergraduate, 2014 - 2015, 2013 - 2014

Akışkanlar Mekaniği, Undergraduate, 2014 - 2015, 2013 - 2014

Matematiksel Modelleme, Undergraduate, 2014 - 2015

Temel Elektrokimya, Undergraduate, 2013 - 2014

Kütle ve Enerji Denklikleri I, Undergraduate, 2014 - 2015

Advising Theses

Demir Kıvrak H., Karbon Nanotüp Destekli Pd, In, Sn Katalizörlerinin Sentezi, Karakterizasyonu ve Hidrazin Elektroyükseltgenme Sisteminin Dinamik Modellenmesi, Eş danışman, Postgraduate, A.CAVAK(Student), Continues

Demir Kıvrak H., Electrocatalytic methylene blue oxidation and degradation on TiO₂ supported catalysts under UV illumination, Postgraduate, D.IBRAHİM(Student), Continues

Demir Kıvrak H., Meme kanseri belirteci CA 15-3'ün elektrokimyasal olarak tayininde yeni malzemelerin kullanılması ve klinik uygulamalar, Doctorate, Ö.Faruk(Student), Continues

Demir Kıvrak H., Gıdalardan aminoasit tayininde kullanılacak olan yeni polimer temelli malzemelerin sentezi, Doctorate, K.SELÇUK(Student), Continues

Demir Kıvrak H., Ru Temelli Geliştirilen Bazı Katalizörlerin NaBH₄ ün Hidrolizinde ve Elektrokimyasal Katalitik Aktivitesinin Belirlenmesi, Doctorate, T.AVCI(Student), Continues

Demir Kıvrak H., Gıdalardan elde edilen karbon nanomalzemelerin medikal amaçlı süperkapasitörlerde kullanılması, Doctorate, A.ÇAĞLAR(Student), Continues

Demir Kıvrak H., Yüksek Aktiviteye Sahip PdZn Katalizörlerinin Formik asit Elektrokimyasal oksidasyon aktivitesinin incelenmesi, Postgraduate, Y.YILMAZ(Student), Continues

Demir Kıvrak H., Synthesis and characterization of polymer based catalysts and their formic acid electrooxidation activities, Postgraduate, S.Khalid(Student), Continues

Demir Kıvrak H., PEM Yakıt Pilleri için Anot Katalizör ve Membran Sentezi, Karakterizasyonu ve Yakıt Pili Performans Testleri, Doctorate, B.ULAŞ(Student), Continues

Demir Kıvrak H., Amonyak boran hidrolizinden hidrojen eldesi için uygun katalizörlerin sentezi karakterizasyonu ve optimizasyonu, Eş danışman, Postgraduate, F.YILDIZ(Student), 2019

Demir Kıvrak H., Multimetalli nanokatalizörlerin sentezi karakterizasyonu ve glukoz sensör etkisinin elektrokimyasal incelenmesi, Eş danışman, Postgraduate, F.SALMAN(Student), 2019

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

Demir Kıvrak H., Enzimsiz hidrojen peroksit sensörlerinin geliştirilmesi, Postgraduate, O.ALAL(Student), 2019

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., Cvd tekniğiyle hazırlanmış grafen sentezi, karakterizasyonu ve glikoz oksidasyonun incelenmesi, Postgraduate, A.ÇAĞLAR(Student), 2018

Demir Kıvrak H., RISK AND DETECTION OF TOXIC GASES HYDROGEN SULFIDE (H₂S) AND CARBON MONOXIDE (CO) FROM REFINERY IN ERBİL, Postgraduate, R.Ali(Student), 2017

Kıvrak A., Demir Kıvrak H., Güneş pilleri için tasarlanan organik malzemelerin yeni katalizörler ile sentezi, Postgraduate, Ö.Faruk(Student), 2017

Kıvrak A., Demir Kıvrak H., Microwave assisted n-hexane reforming on Pt-based catalyst, Postgraduate, M.Ali(Student), 2017

Demir Kıvrak H., Formik asit elektroyükseltgenmesi için hazırlanan karbon nanotüp destekli CoAuPd nanokatalizörlerinin sentezi ve karakterizasyonu, Postgraduate, D.ATBAŞ(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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., Demir Kıvrak H.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.156, 2021 (SCI-Expanded)
- II. **Superior formic acid electrooxidation activity on carbon nanotube-supported binary Pd nanocatalysts prepared via sequential sodium borohydride reduction technique**
Caglar A., Demir Kıvrak H.
SURFACE AND INTERFACE ANALYSIS, vol.53, no.8, pp.716-726, 2021 (SCI-Expanded)
- III. **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., Kıvrak A., Demir Kıvrak H.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.888, 2021 (SCI-Expanded)
- IV. **Fabrication of Carbon-Doped Titanium Dioxide Nanotubes as Anode Materials for Photocatalytic Glucose Fuel Cells**
Caglar A., Demir Kıvrak H., Aktaş N., Solak A. O.
JOURNAL OF ELECTRONIC MATERIALS, vol.50, no.4, pp.2242-2253, 2021 (SCI-Expanded)
- V. **Untangling the cobalt promotion role for ruthenium in sodium borohydride dehydrogenation with multiwalled carbon nanotube-supported binary ruthenium cobalt catalyst**
Avcı Hansu T., ŞAHİN Ö., caglar A., Demir Kıvrak H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.4, pp.6054-6066, 2021 (SCI-Expanded)
- VI. **A novel experimental and density functional theory study on palladium and nitrogen doped few layer graphene surface towards glucose adsorption and electrooxidation**
Caglar A., Duzenli D., ÖNAL I., Tezsevin I., Sahin O., Demir Kıvrak H.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.150, 2021 (SCI-Expanded)
- VII. **A comparative analysis for anti-viral drugs: Their efficiency against SARS-CoV-2**
Kıvrak A., Ulaş B., Demir Kıvrak H.

INTERNATIONAL IMMUNOPHARMACOLOGY, vol.90, 2021 (SCI-Expanded)

- VIII. **Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**
Salman F., Çelik Kazıcı H., Demir Kıvrak H.
FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING, pp.1-10, 2020 (SCI-Expanded)
- IX. **A remarkable Mo doped Ru catalyst for hydrogen generation from sodium borohydride: the effect of Mo addition and estimation of kinetic parameters**
Hansu T. A., ŞAHİN Ö., Çağlar A., Demir Kıvrak H.
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.131, no.2, pp.661-676, 2020 (SCI-Expanded)
- X. **Enhanced electrochemical glucose oxidation in alkaline solution over indium decorated carbon supported palladium nanoparticles**
Er O. F., Çağlar A., Demir Kıvrak H.
MATERIALS CHEMISTRY AND PHYSICS, vol.254, 2020 (SCI-Expanded)
- XI. **Novel benzothiophene based catalyst with enhanced activity for glucose electrooxidation**
Ozok O., Kavak E., Er O. F., Demir Kıvrak H., Kıvrak A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.53, pp.28706-28715, 2020 (SCI-Expanded)
- XII. **Synthesis of Ferrocene Based Naphthoquinones and its Application as Novel Non-enzymatic Hydrogen Peroxide**
ERTAS N. A., KAVAK E., Salman F., KAZIÇI H., Kıvrak H., Kıvrak A.
ELECTROANALYSIS, vol.32, no.6, pp.1178-1185, 2020 (SCI-Expanded)
- XIII. **Effective carbon nanotube supported metal (M=Au, Ag, Co, Mn, Ni, V, Zn) core Pd shell bimetallic anode catalysts for formic acid fuel cells**
Çağlar A., Cogenli M. S., Yurtcan A. B., Kıvrak H.
Renewable Energy, vol.150, pp.78-90, 2020 (SCI-Expanded)
- XIV. **Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**
Salman F., Çelik Kazıcı H., Demir Kıvrak H.
FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING, vol.in press, 2020 (SCI-Expanded)
- XV. **Novel carbon nanotube supported Co@Ag@Pd formic acid electrooxidation catalysts prepared via sodium borohydride sequential reduction method**
Er O. F., Çağlar A., Ulaş B., Demir Kıvrak H., Kıvrak A.
MATERIALS CHEMISTRY AND PHYSICS, vol.241, 2020 (SCI-Expanded)
- XVI. **Hydrolysis and electrooxidation of sodium borohydride on novel CNT supported CoBi fuel cell catalyst**
Hansu T. A., Çağlar A., ŞAHİN Ö., Demir Kıvrak H.
MATERIALS CHEMISTRY AND PHYSICS, vol.239, 2020 (SCI-Expanded)
- XVII. **A comparative experimental and density functional study of glucose adsorption and electrooxidation on the Au-graphene and Pt-graphene electrodes**
Çağlar A., Duzenli D., ÖNAL I., Tersevin I., Sahin O., Demir Kıvrak H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.1, pp.490-500, 2020 (SCI-Expanded)
- XVIII. **Electrochemical sensor investigation of carbon-supported PdCoAg multimetal catalysts using sugar-containing beverages**
Salman F., Çelik Kazıcı H., Demir Kıvrak H.
FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING, 2019 (SCI-Expanded)
- XIX. **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., Kıvrak H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.15, pp.8985-9000, 2019 (SCI-Expanded)
- XX. **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., Kıvrak H.

- INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.14, pp.8204-8216, 2019 (SCI-Expanded)
- XXI. **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)
- XXII. **Dendrimer Templated Synthesis of Carbon Nanotube Supported PdAu Catalyst and its Application as Hydrogen Peroxide Sensor**
ALAL O., Çağlar A., Kivrak H., SAHIN O.
Electroanalysis, vol.31, no.9, pp.1646-1655, 2019 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **Highly active carbon nanotube supported PdAu alloy catalysts for ethanol electrooxidation in alkaline environment**
Çağlar A., Kivrak H.
International Journal of Hydrogen Energy, vol.44, no.23, pp.11734-11743, 2019 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **3-Acrylamidopropyl-trimethylammoniumchloride cationic hydrogel modified graphite electrode and its superior sensitivity to hydrogen peroxide**
Çağlar A., KAZICI 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)
- XXIX. **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)
- XXX. **Alcohol electrooxidation study on carbon nanotube supported monometallic, Pt, Bi, and Ru catalysts**
Caglar A., Aldemir A., Demir Kivrak H.
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.26, no.12, pp.863-870, 2018 (SCI-Expanded)
- XXXI. **A complementary study on novel PdAuCo catalysts: Synthesis, characterization, direct formic acid fuel cell application, and exergy analysis**
Kivrak H., ATBAS D., ALAL O., Cogenli M. S., Bayrakceken A., Mert S. O., Sahin O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.48, pp.21886-21898, 2018 (SCI-Expanded)
- XXXII. **Microstructured prealloyed Titanium-Nickel powder as a novel nonenzymatic hydrogen peroxide sensor**
Kazici H. C., Çağlar A., Aydoğmuş T., Aktaş N., Kivrak H.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.530, pp.353-360, 2018 (SCI-Expanded)
- XXXIII. **Synthesis of tetracyanoethylene-substituted ferrocene and its device properties**
Kivrak A., Zobi C., TORLAK Y., Camlisoy Y., KUŞ M., Demir Kivrak H.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, no.10, 2018 (SCI-Expanded)
- XXXIV. **A novel Central Composite Design based response surface methodology optimization study for the synthesis of Pd/CNT direct formic acid fuel cell anode catalyst**

- Çağlar A., Şahan T., Cogenli M. S., Yurtcan A. B., Aktaş N., Kivrak H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.24, pp.11002-11011, 2018 (SCI-Expanded)
- XXXV. **Synthesis, characterization, and enhanced formic acid electrooxidation activity of carbon supported MnO_x promoted Pd nanoparticles**
BULUT A., YURDERI M., ALAL O., KIVRAK H., KAYA M., ZAHMAKIRAN M.
ADVANCED POWDER TECHNOLOGY, vol.29, no.6, pp.1409-1416, 2018 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of novel Ti doped hexagonal mesoporous silica catalyst for nonenzymatic hydrogen peroxide oxidation**
DUZENLİ D., ŞAHİN Ö., ÇELİK KAZICI H., AKTAŞ N., DEMİR KIVRAK H.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.257, pp.92-98, 2018 (SCI-Expanded)
- XXXVII. **Synthesis, characterization, and voltammetric hydrogen peroxide sensing on novel monometallic (Ag, Co/MWCNT) and bimetallic (AgCo/MWCNT) alloy nanoparticles**
ÇELİK KAZICI H., SALMAN F., CAĞLAR A., DEMİR KIVRAK H., AKTAŞ N.
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.26, no.3, pp.145-151, 2018 (SCI-Expanded)
- XXXVIII. **Synthesis and solar-cell applications of novel furanyl-substituted anthracene derivatives**
KIVRAK A., ER O. F., DEMİR KIVRAK H., TOPAL Y., KUŞ M., CAMLIŞOY Y.
OPTICAL MATERIALS, vol.73, pp.206-212, 2017 (SCI-Expanded)
- XXXIX. **Synthesis of Pd-Ni/C bimetallic materials and their application in non-enzymatic hydrogen peroxide detection**
ÇELİK KAZICI H., SALMAN F., DEMİR KIVRAK H.
MATERIALS SCIENCE-POLAND, vol.35, no.3, pp.660-666, 2017 (SCI-Expanded)
- XL. **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., DEMİR KIVRAK H., KAYA M., ZAHMAKIRAN M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.210, pp.470-483, 2017 (SCI-Expanded)
- XLI. **Synthesis of thiophenyl-substituted unsymmetrical anthracene derivatives and investigation of their electrochemical and electrooptical properties**
KIVRAK A., ÇALIŞ H., TOPAL Y., KIVRAK H., KUS M.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.161, pp.31-37, 2017 (SCI-Expanded)
- XLII. **Surface Characterization Techniques**
ERDOĞAN G., GÜLER G., KILIC T., KILIC D. O., ERDOĞAN B., TOSUN Z., DEMİR KIVRAK H., TURKAN U., ÖZCAN F., GÜRİSOY M., et al.
SURFACE TREATMENTS FOR BIOLOGICAL, CHEMICAL, AND PHYSICAL APPLICATIONS, pp.67-114, 2017 (SCI-Expanded)
- XLIII. **Chemical and Physical Modification of Surfaces**
KARAMAN M., GÜRİSOY M., KUŞ M., ÖZEL F., YENEL E., SAHİN O. G., DEMİR KIVRAK H.
SURFACE TREATMENTS FOR BIOLOGICAL, CHEMICAL, AND PHYSICAL APPLICATIONS, pp.23-66, 2017 (SCI-Expanded)
- XLIV. **Facile and Rapid Synthesis of Microwave Assisted Pd Nanoparticles as Non-Enzymatic Hydrogen Peroxide Sensor**
ŞAHİN Ö., DEMİR KIVRAK H., KIVRAK A., ÇELİK KAZICI H., ALAL O., ATBAS D.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.12, no.1, pp.762-769, 2017 (SCI-Expanded)
- XLV. **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., ÇELEBİ M., KIVRAK H., KAYA M., ZAHMAKIRAN M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.180, pp.586-595, 2016 (SCI-Expanded)
- XLVI. **An ethanol electrooxidation study on carbon-supported Pt-Ru nanoparticles for direct ethanol fuel cells**
ŞAHİN Ö., DUZENLİ D., KIVRAK H.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.5, pp.628-634, 2016 (SCI-Expanded)

- XLVII. 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, vol.5, no.10, pp.6099-6110, 2015 (SCI-Expanded)
- XLVIII. Efficient and rapid microwave-assisted route to synthesize Pt-MnO_x hydrogen peroxide sensor**
Kivrak H., ALAL O., ATBAS D.
ELECTROCHIMICA ACTA, vol.176, pp.497-503, 2015 (SCI-Expanded)
- XLIX. 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, vol.164, pp.324-333, 2015 (SCI-Expanded)
- L. The effect of temperature and concentration for methanol electrooxidation on Pt-Ru catalyst synthesized by microwave assisted route**
Demir Kivrak H.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.3, pp.563-575, 2015 (SCI-Expanded)
- LI. 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, vol.12, no.1, 2014 (SCI-Expanded)
- LII. 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, vol.91, no.5, pp.560-564, 2013 (SCI-Expanded)
- LIII. 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, vol.38, no.2, pp.901-909, 2013 (SCI-Expanded)
- LIV. Carbon Nanotube Structures as Support for Ethanol Electro-Oxidation Catalysis**
Kivrak H., KULIYEV S., TEMPEL H., SCHNEIDER J., UNER D.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.9, 2011 (SCI-Expanded)
- LV. Determination of the dispersion of supported Pt particles by gas-phase and liquid-phase measurements**
Kivrak H., Mastalir A., Kiraly Z., ÜNER D.
CATALYSIS COMMUNICATIONS, vol.10, no.6, pp.1002-1005, 2009 (SCI-Expanded)
- LVI. Liquid chromatography as a novel method for determination of the dispersion of supported Pd particles**
KIRALY Z., MASTALIR A., CSASZAR A., Demir H., UNER D., FINDENEĞG G. H.
JOURNAL OF CATALYSIS, vol.245, no.2, pp.267-271, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. Ruthenium modified defatted spent coffee catalysts for supercapacitor and methanolysis application**
Akdemir M., Hansu T. A., Caglar A., KAYA M., Demir Kivrak H.
ENERGY STORAGE, vol.3, no.4, 2021 (ESCI)
- II. A Review of Pd Based Multimetallic Anode Electrocatalysts for Direct Formic Acid Fuel Cells**
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- LXVII. Carbon Supported Pd-Ni Nanocatalysts For Ethanol Oxidation in Alkaline Environment**
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- LXXI. Synthesis and Charterization of Carbon Nanotube Supported Pd-Au Formic Asid Electrooxidation Anode Catalysts**
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- LXXIII. **Pd ve Pd-Au Metal Katalizörlerinin Hidrojen Peroksit Sensörü Olarak Kullanılması**
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6. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 7 - 10 September 2004, pp.1-6

Supported Projects

Demir Kıvrak H., ŞAHİN Ö., ÇAĞLAR A., ER Ö. F., Project Supported by Higher Education Institutions, CVD Tekniğiyle hazırlanmış Grafen-Metal Nanokompozitlerin Glikoz elektrokoksitleme aktivitesinin incelenmesi, 2019 - 2021

Demir Kıvrak H., AVCI HANSU T., Project Supported by Higher Education Institutions, Ru Temelli Geliştirilen Bazı Katalizörlerin NaBH₄ ün Hidrolizinde ve Elektrokoksitlemeyle Katalitik Aktivitesinin Belirlenmesi, 2018 - 2021

Demir Kıvrak 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 Kıvrak H., Project Supported by Higher Education Institutions, Deiyonize Su Cihazının Filtre Değişim ve Onarımı, 2019 - 2019

Demir Kıvrak H., TUBITAK Project, Cvd Tekniğiyle Katkılanmış Grafen-Metal Nanokompozitlerin Sentezi, Karakterizasyonu Ve Glikoz Sensör Duyarlılıklarının İncelenmesi, 2017 - 2019

Demir Kıvrak H., Project Supported by Higher Education Institutions, Nanoyapılı Pt temelli iki metalli Doğrudan Metanol Yakıt Pili Katalizörlerinin Sentezi ve Geliştirilmesi, 2018 - 2018

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

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

Demir Kıvrak H., Project Supported by Higher Education Institutions, Potensiyostat onarım desteği başvurusu, 2017 - 2018

Demir Kıvrak H., Project Supported by Higher Education Institutions, Formik asit elektroyükseltgenmesi için hazırlanan Pd temelli katalizörlerin sentezi ve karakterizasyonu, 2017 - 2018

Demir Kıvrak H., ATBAŞ D., Project Supported by Higher Education Institutions, Formik Asit Elektroyükseltgenmesi İçin Hazırlanan Karbon Nanotüp Destekli CoAuPd Nanokatalizörlerinin Sentezi ve Karakterizasyonu, 2016 - 2017

Demir Kıvrak H., ŞAHİN Ö., Kıvrak A., Project Supported by Higher Education Institutions, PdAg Formik Asit Yakıt Pili Anot Katalizörlerinin Sentezi ve Karakterizasyonu, 2016 - 2017

Demir Kıvrak H., TUBITAK Project, Meme Kanseri Belirteçlerinin Grafen Temelli Elektrokimyasal İmmunosensörler Aracılığı ile Yüksek Duyarlılıkta Belirlenmesi, 2016 - 2017

Zahmakıran M., Kıvrak H. D., Project Supported by Higher Education Institutions, ALD Tekniğiyle Külçeleşme ve Sızmaya Karşı Dayanıklı Katı Destekli Metal Nanokatalizörlerinin Geliştirilmesi ve Formik Asitten Hidrojen Üretiminde Kullanılması, 2016 - 2017

Demir Kıvrak H., TUBITAK Project, Elektrokimyasal Grafen Üretimi ve Uygulamaları, 2016 - 2017

Demir Kıvrak H., TUBITAK Project, Geçiş Metali Çekirdeği Üzerinde (Au, Ti, V, Mn, Fe, Co, Ni, Zn) Pd Kabuklandırılması ile Çok Metalli Çekirdek/Kabuk Katalizörlerinin Nano Tasarım ile Sentezi, 2014 - 2017

Demir Kıvrak H., Project Supported by Higher Education Institutions, 48th Symposium on Catalysis, 2016 - 2016

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

Demir Kıvrak H., TUBITAK Project, Karbon nanotüp destekli Formik asit yakıt pili Pd, Pd-Au, Pd-Ag anot katalizörlerinin Mikrodalga sentez yöntemi ile sentezlenmesi, karakterizasyonu ve yakıt pili uygulamaları, 2015 - 2015

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

Demir Kıvrak H., TUBITAK Project, CoAuPd Çekirdek/Kabuk Katalizörlerinin Nano Tasarım ile Sentezi, Karakterizasyonu ve DFAYP uygulamaları, 2014 - 2015

Demir Kıvrak H., TUBITAK Project, Yüksek Performanslı Nanoyapılı metanol elektrokoksitleme PtRu katalizörlerinin sentezi ve geliştirilmesi, 2013 - 2014

Demir Kıvrak H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Etanol Elektro-oksitleme katalizörlerinin sentezlenmesi ve karakterizasyonu, 2003 - 2009

Activities in Scientific Journals

American Journal of Material Science and Engineering, Committee Member, 2016 - 2018

Journal of material physics and applications, Committee Member, 2016 - 2016

American Journal of Material Science and Engineering, Committee Member, 2014 - 2015

Scientific Refereeing

Renewable Energy, SCI Journal, November 2019

Renewable Energy, SCI Journal, November 2019

Applied Organometallic chemistry, SCI Journal, November 2019

Renewable Energy, SCI Journal, October 2019

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Ionics, SCI Journal, June 2019

Ionics, SCI Journal, May 2019

International Journal of Energy Research, SCI Journal, May 2019

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Renewable Energy, SCI Journal, May 2019

Journal of Environmental Chemical Engineering , Other Indexed Journal, May 2019

Renewable Energy, SCI Journal, May 2019

International journal of environmental science and technology , SCI Journal, April 2019

International journal of environmental science and technology , SCI Journal, April 2019

Ultrasonics Sonochemistry, SCI Journal, April 2019

International journal of hydrogen energy , SCI Journal, March 2019

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Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refereed Journal, November 2018

Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, November 2018
Vacuum, SCI Journal, November 2018
International Journal of hydrogen energy, SCI Journal, November 2017
TUBITAK Project, November 2017
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TUBITAK Project, November 2017
Project Supported by Higher Education Institutions, October 2017
Selcuk University Journal of Engineering, Science and Technology, National Scientific Refreed Journal, February 2017
Journal of porous materials, SCI Journal, October 2016
Physics and Materials Chemistry, Other Indexed Journal, September 2016
Worlds journal of analytical chemistry, Other Indexed Journal, July 2016
RSC Advances, Journal Indexed in SSCI, June 2016
Technology, Other Indexed Journal, April 2016
International Journal of Nanoparticles, Other Indexed Journal, April 2015
Turkish Journal of Chemistry, SCI Journal, March 2015
Turkish Journal of Chemistry, SCI Journal, December 2014
Journal of Materials Physics and Chemistry, Other Indexed Journal, October 2014
International Journal of Nanoparticles, Other Indexed Journal, October 2014
Turkish Journal of Chemistry, SCI Journal, September 2014
American Journal of Mining and metallurgy, Other Indexed Journal, August 2014
International Journal of Nanoparticles, Other Indexed Journal, June 2014
International Journal of Nanoparticles, Other Indexed Journal, February 2014
Turkish Journal of Chemistry, SCI Journal, November 2013
Applied Catalysis B Environmental, SCI Journal, May 2013

Scientific Consultations

TÜBİTAK Dış Danışmanlık, Project Consultancy, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey, 2014 - 2014

Scientific Research / Working Group Memberships

Nanotechnology Sensors, Energy and medicine araştırma grubu, YÜZÜNCÜ YIL ÜNİVERSİTESİ, Turkey,
<https://www.facebook.com/search/top/?q=nanotech-sem%20research%20group>, 2014 - Continues

Metrics

Publication: 203
Citation (WoS): 984
Citation (Scopus): 1209
H-Index (WoS): 17
H-Index (Scopus): 21

Congress and Symposium Activities

International Engineering and Science Symposium, Attendee, Siirt, Turkey, 2019
IHTC 2018 Workshop on Strategic Partnership for Development of Fuel Cells, Invited Speaker, Antalya, Turkey, 2018
III. International Conference on Engineering and Natural Sciences (ICENS), Session Moderator, Budapest, Hungary, 2017

III. International Conference on Engineering and Natural Sciences (ICENS), Attendee, Budapest, Hungary, 2017
48th Symposium on Catalysis, Attendee, Praha, Czech Republic, 2016
12 Ulusal Kimya Mühendisliđi Kongresi, Attendee, İzmir, Turkey, 2016

Awards

Demir Kıvrak H., UNESCO/LOREAL 2017 Genç Bilim Kadını Ödülü, Unesco/Loreal, May 2017

Demir Kıvrak H., En iyi poster ödülü, International Nanoscience and nanotechnology for next generation (NaNoNG 2016) kongresi, October 2016