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Education Information

Doctorate, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Kimya Mühendislięi A.B.D., Turkey 2016 - Continues

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendislięi A.B.D., Turkey 2012 - 2015

Under Graduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendislięi A.B.D., Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Research Areas

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

Academic Titles / Tasks

Research Assistant, Van Yüzüncü Yil University, Mühendislik Fakültesi, Kimya Mühendislięi Bölümü, 2016 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Tailoring the metallic composition of Pd, Pt, and Au containing novel trimetallic catalysts to achieve enhanced formic acid electrooxidation activity**
Ulař B., Çaęlar A., Kivrak A., Aktař N., Kivrak H.
Ionics, vol.26, pp.3109-3121, 2020 (Journal Indexed in SCI)
- **Novel carbon nanotube supported Co@Ag@Pd formic acid electrooxidation catalysts prepared via sodium borohydride sequential reduction method**
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- **Towards more active and stable PdAgCr electrocatalysts for formic acid electrooxidation: The role of optimization via response surface methodology**
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- **Synthesis of in situ N-, S-, and B-doped few-layer graphene by chemical vapor deposition technique and their superior glucose electrooxidation activity**
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● **Biosorption of remazol orange RR from aqueous solution: kinetic, equilibrium and thermodynamic studies**

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● **Carbon monoxide and formic acid electrooxidation study on Au decorated Pd catalysts prepared via microwave assisted polyol method**

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● Fullerenes Nanotubes and Carbon Nanostructures, vol.27, pp.545-552, 2019 (Journal Indexed in SCI)

● **Determination of optimum Pd:Ni ratio for PdxNi100-x/CNTs formic acid electrooxidation catalysts synthesized via sodium borohydride reduction method**

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● International Journal of Energy Research, vol.43, pp.3436-3445, 2019 (Journal Indexed in SCI)

● **Development of Nonenzymatic Benzoic Acid Detection on PdSn/GCE/Vulcan XC-72R Prepared via Polyol Method**

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● Electroanalysis, vol.31, pp.1118-1124, 2019 (Journal Indexed in SCI)

● **Novel activated carbon supported trimetallic PdCoAg nanoparticles as efficient catalysts for the hydrolytic dehydrogenation of ammonia borane**

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● International Journal of Hydrogen Energy, vol.44, pp.10561-10572, 2019 (Journal Indexed in SCI)

● **Atomic molar ratio optimization of carbon nanotube supported PdAuCo catalysts for ethylene glycol and methanol electrooxidation in alkaline media**

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● CHEMICAL PAPERS, vol.73, pp.425-434, 2019 (Journal Indexed in SCI)

● **Composition dependent activity of PdAgNi alloy catalysts for formic acid electrooxidation**

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Articles Published in Other Journals

● **A review of Pd based multimetallic anode electrocatalysts for direct formic acid fuel cells**

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● General Chemistry, vol.in press, 2020 (Refereed Journals of Other Institutions)

● **Yüksek Aktiviteye Sahip CNT Destekli Pd-Zn Katalizörünün Formik Asit Elektrokoksitletme Aktivitesinin İncelenmesi**

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

● **Karbon Destekli Pd Nanokatalizörü Üzerinde Elektrokoksitletme Parametrelerinin İncelenmesi**

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● **A MINI REVIEW ON HEALTH AND ENVIRONMENTAL RISKS OF OIL AND GAS INDUSTRY UNDESIRE**

● **PRODUCTS: HYDROGEN SULFIDE AND CARBON MONOXIDE**

Bakr R. A. , Ulaş B., Demir Kıvrak H.

● **INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, vol.7, pp.883-894, 2017 (Journal Indexed in ESCI)**

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PRODUCTS: HYDROGEN SULFIDE AND CARBON MONOXIDE

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A MINI REVIEW ON HEALTH AND ENVIRONMENTAL RISKS OF OIL AND GAS INDUSTRY UNDESIREDD PRODUCTS: HYDROGEN SULFIDE AND CARBON MONOXIDE

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Books & Book Chapters

Yakıt Pili Katalizörlerin Sentezi

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

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

Bölüm 3: Yakıt Pili Katalizörlerinin Sentezi ve Karakterizasyonu

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

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

Bölüm 1: Yakıt Pillerine Giriş

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

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

Bölüm 2: Yakıt Pili Katalizörleri

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

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

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Bimetalik Nanokatalizörlerin Sentezi ve Hidrojen Peroksit Sensör Uygulamaları

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

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

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

Demir Kıvrak H., Ulaş B., Er O. F.

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

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

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

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

SYNTHESIS OF IN-SITU S DOPED FEW LAYER GRAPHENE BY CHEMICAL VAPOR DEPOSITION TECHNIQUE AND THEIR SUPERIOR GLUCOSE ELECTROOXIDATION ACTIVITY

Demir Kıvrak H., Çağlar A., Ulaş B., Muhammady S., Sahin O.

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FEW-LAYER GRAPHENE COATED ON INDIUM TIN OXIDE ELECTRODE PREPARED BY CHEMICAL VAPOR DEPOSITION AND THEIR ENHANCED GLUCOSE ELECTROOXIDATION ACTIVITY

Demir Kıvrak H., Çağlar 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

● **SYNTHESIS OF B DOPED AND IN-SITU B DOPED FEW LAYER GRAPHENE BY CHEMICAL VAPOR DEPOSITION TECHNIQUE FOR HYDROGEN PEROXIDE DETECTION**

Demir Kıvrak H., Çağlar 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

● **Elektrokimyasal grafen oksit sentezi ve karakterizasyonu; glikoz ve hidrojen peroksit uygulamaları**

Çağlar A., Kuliye S., Demir Kıvrak H., Ulaş B.

13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.6297

● **Vulcan destekli Paladyum katalizörünün nano tasarım ile sentezi ve doğrudan formik asit yakıt pili uygulaması**

Yılmaz Y., Yurdağül M., Çağlar A., Ulaş B., Demir Kıvrak H.

13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.6335

● **Pd@Sn Vulcan nanomateryalinin gıdalarda koruyucu madde tayininde kullanılması**

Yayla M., Çelik Kazıcı H., Ulaş B., Demir Kıvrak H., Aktaş N.

13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7547

● **Erbildeki bir rafineride Hidrojen sülfür ve Karbon monoksit toksik gazlarının belirlenmesi ve risk analizi**

BAKR R. A. , Ulaş B., Demir Kıvrak H.

13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7288

● **INVESTIGATION OF Ni ADDITION TO Pd/C: SYNTHESIS, CHARACTERIZATION AND FORMIC ACID ELECTROOXIDATION PERFORMANCE**

Çağlar A., Ulaş B., Yılmaz Y., Demir Kıvrak H.

International Conference of Ecosystems Tirana, Albania,, Tiran, Albania, 22 - 25 June 2018, pp.1

● **INVESTIGATION OF OPTIMUM ATOMIC RATIO OF PDAGNI TOWARD FORMIC ACID ELECTROOXIDATION ACTIVITY**

Ulaş B., Yılmaz Y., Çağlar A., Demir Kıvrak H.

International Conference of Ecosystems Tirana, Albania,, Tiran, Albania, 22 - 25 June 2018, pp.1

● **Carbon nanotube supported Pt, Bi, and Ru; sthnesis and ethanol electrooxidation performance**

Çağlar A., Demir Kıvrak H., Ulaş B., Sahin O., Albouni N.

International symposium for environmental science and engineering research (ISESER), Antalya, Turkey, 11 - 12 May 2018, pp.10

● **Synthesis and Characterization of PdAgNi/CNT Catalysts for Formic Acid Electrooxidation,**

Çelik Kazıcı H., Ulaş B., Kıvrak H., Çağlar A.

International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.1

● **Synthesis, Characterization and CO Poisoning Tolerance of PdAgNi/CNT Catalysts**

Çelik Kazıcı H., Ulaş B., Kıvrak H., Çağlar A.

International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.1

● **Synthesis And Electrochemical Characterization Of The Pdag/CNT Electrocatalyst**

Çelik Kazıcı H., Ulaş B., Kıvrak H., Aktaş N., Çağlar A.

III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Macaristan, Hungary, 3 - 07 May 2017, pp.1

● **Synthesis Of The Pdagco/CNT For Direct Formic Acid Fuel Cell**

Çelik Kazıcı H., Çağlar A., Ulaş B., Kıvrak H., Aktaş N.

III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Macaristan, Hungary, 3 - 07 May 2017, pp.1

● **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.-

● **'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

● **Synthesis and characterization of microwave assisted Pd nanoparticles as hydrogen peroxide sensor**

Ulaş B., Gökdoğan 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

● **Electrodeposition of CoAuPd nanoparticles on indium tin oxide and investigation of their electroactivity toward the formic acid electrooxidation**

Ulaş B., Avcı Ç., Kivrak H., Kivrak A.

3st International NANOSCIENCE & NANOTECHNOLOGY FOR NEXT GENERATION (NaNONG 2016) Conference, Antalya, Turkey, 20 - 22 October 2016, pp.37-0

● **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

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

Citations

Total Citations (WOS):49

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