

Assoc. Prof. BAHAR MERYEMOĞLU

Personal Information

Office Phone: [+90 322 338 6084](tel:+903223386084) Extension: 4615

Office Phone: [+90 322 338 6060](tel:+903223386060) Extension: 4615

Email: bmaryemoglu@cu.edu.tr

Other Email: meryemoglubahar@gmail.com

Web: <https://avesis.cu.edu.tr/bmaryemoglu>

Education Information

Doctorate, Cukurova University, Fen Bilimleri, Kimya, Turkey 2009 - 2013

Postgraduate, Cukurova University, Fen Bilimleri, Kimya, Turkey 2007 - 2009

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Lignoselülozik biyokütle hidrolizatlarından çeşitli gaz ve sıvı yakıt eldesi, Cukurova University, Fen Bilimleri, Kimya, 2013

Postgraduate, Buğday samanının farklı katalizörler kullanılarak sulu faz reformlama yöntemi ile gazlaştırılması, Cukurova University, Fen Bilimleri, Kimya, 2009

Research Areas

Chemistry, Analytical Chemistry, Natural Sciences, Engineering and Technology

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

- I. **Biomass hydrolysis with phosphotungstic acid**
MERYEMOĞLU B.
CATALYSIS COMMUNICATIONS, vol.149, 2021 (Journal Indexed in SCI)
- II. **Utilization of waste cotton linter for preparation of activated carbon to be used as catalyst support in aqueous-phase reforming process**
Ozsel B. K. , Nis B., MERYEMOĞLU B., HASANOĞLU A., Irmak S.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.38, no.2, pp.445-450, 2019 (Journal Indexed in SCI)
- III. **Natural dyes from lignocellulosic biomass hydrolysates**
Meryemoğlu B.
INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH, vol.43, pp.92-97, 2018 (Journal Indexed in SCI)
- IV. **Microwave pretreatment effects on switchgrass and miscanthus solubilization in subcritical water and hydrolysate utilization for hydrogen production**

Irmak S., MERYEMOĞLU B., Sandip A., Subbiah J., Mitchell R. B. , Sarath G.
BIOMASS & BIOENERGY, vol.108, pp.48-54, 2018 (Journal Indexed in SCI)

- V. **Production of activated carbon materials from kenaf biomass to be used as catalyst support in aqueous-phase reforming process**
MERYEMOĞLU B., Irmak S., HASANOĞLU A.
FUEL PROCESSING TECHNOLOGY, vol.151, pp.59-63, 2016 (Journal Indexed in SCI)
- VI. **A new approach for high-yield hydrogen production: Atmospheric pressure vapour-phase catalytic reforming of biomass hydrolysate**
HASANOĞLU A., MERYEMOĞLU B., Irmak S., Kurtuluş M., ERBATUR O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.30, pp.12880-12887, 2016 (Journal Indexed in SCI)
- VII. **Improving activity of Pt supported metal catalysts by changing reduction method of Pt precursor for hydrogen production from biomass**
Irmak S., MERYEMOĞLU B., OZSEL B. K. , HASANOĞLU A., ERBATUR O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.43, pp.14826-14832, 2015 (Journal Indexed in SCI)
- VIII. **Does reduced or non-reduced biomass feed produce more gas in aqueous-phase reforming process?**
IRMAK S., MERYEMOĞLU B., HASANOĞLU A., ERBATUR O.
FUEL, vol.139, pp.160-163, 2015 (Journal Indexed in SCI)
- IX. **Influence of particle size of support on reforming activity and selectivity of activated carbon supported platinum catalyst in APR**
Meryemoglu B., IRMAK S., HASANOĞLU A., ERBATUR O., Kaya B.
FUEL, vol.134, pp.354-357, 2014 (Journal Indexed in SCI)
- X. **Hydrogen production from aqueous-phase reforming of sorghum biomass: An application of the response surface methodology**
Meryemoglu B., HASANOĞLU A., Kaya B., IRMAK S., ERBATUR O.
RENEWABLE ENERGY, vol.62, pp.535-541, 2014 (Journal Indexed in SCI)
- XI. **Biofuel production by liquefaction of kenaf (*Hibiscus cannabinus* L.) biomass**
Meryemoglu B., HASANOĞLU A., IRMAK S., ERBATUR O.
BIORESOURSE TECHNOLOGY, vol.151, pp.278-283, 2014 (Journal Indexed in SCI)
- XII. **Preparation of activated carbon supported Pt catalysts and optimization of their catalytic activities for hydrogen gas production from the hydrothermal treatment of biomass-derived compounds**
Meryemoglu B., IRMAK S., Hesenou A., ERBATUR O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.23, pp.17844-17852, 2012 (Journal Indexed in SCI)
- XIII. **Comparison of batch aqueous-phase reforming of glycerol and lignocellulosic biomass hydrolysate**
Meryemoglu B., Kaya B., IRMAK S., Hesenov A., ERBATUR O.
FUEL, vol.97, pp.241-244, 2012 (Journal Indexed in SCI)
- XIV. **Electrolysis of coal slurries to produce hydrogen gas: Effects of different factors on hydrogen yield**
Hesenov A., Meryemoglu B., ICTEN O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.19, pp.12249-12258, 2011 (Journal Indexed in SCI)
- XV. **Aqueous-phase reforming of biomass using various types of supported precious metal and raney-nickel catalysts for hydrogen production**
MERYEMOĞLU B., Hesenov A., IRMAK S., ATANUR O. M. , ERBATUR O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.22, pp.12580-12587, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **A research on antioxidant activity evaluation of waste lignocellulosic biomass: optimization using response surface methodology**
MERYEMOĞLU B., KAYA ÖZSEL B., NİŞ B.
Cumhuriyet Science Journal, vol.41, no.3, pp.594-601, 2020 (Other Refereed National Journals)
- II. **Polietilen-İndirgenmiş Grafen Oksit ve Polietilen-İndirgenmiş Grafen Oksit-Aramid Kompozitlerinin**

Hazırlanması

MERYEMOĞLU B., ERBATUR O.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2020 (Other Refereed National Journals)

III. EFFECT OF BIOMASS HYDROLYSATE ON SOIL AND PLANT PHENOLIC CONTENTS

MERYEMOĞLU B.

Bartın University International Journal of Natural and Applied Sciences, vol.2, pp.113-119, 2019 (Other Refereed National Journals)

IV. Investigation of Organic Solvents Effects on Kenaf (Hibiscus cannabinus L.) Biomass Conversion in Subcritical Water

MERYEMOĞLU B., HASANOĞLU A., KURTULUŞ M., IRMAK S.

Journal of the Turkish Chemical Society, Section A: Chemistry, pp.1423-1430, 2018 (Other Refereed National Journals)

V. Kenaf Hidrolizi Sonrası Kalan Katı Atığın Gazlaştırılması

MERYEMOĞLU B., HASANOĞLU A.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.3, pp.905, 2017 (Other Refereed National Journals)

VI. Xylitol production from lignocellulosics: Are corn biomass residues good candidates?

Irmak S., Canisag H., Vokoun C., MERYEMOĞLU B.

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol.11, pp.220-223, 2017 (Journal Indexed in ESCI)

VII. Kenaf Hidrolizatının Gazlaştırılması ve Cevap YüzeyYöntemi ile Optimizasyonu

HASANOĞLU A., MERYEMOĞLU B.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2017 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. The Effect of Phenolics on Gasification of Sorghum Hydrolysate**
MERYEMOĞLU B., KAYA ÖZSEL B., NİŞ B.
3RD INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, 19 March 2020 - 20 March 2019
- II. The Use of Extruded Activated Carbon Supported Metal Catalyst for Aqueous Phase Reforming**
MERYEMOĞLU B.
4. ÇUKUROVA ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, 21 - 23 February 2020
- III. DETECTING VOLATILES IN LIGNOCELLULOSIC MATERIALS**
MERYEMOĞLU B.
ULUSLARARASI 5 OCAK UYGULAMALI BİLİMLER KONGRESİ, 3 - 05 January 2020
- IV. OPTIMIZATION OF ANTIOXIDANT ACTIVITY IN WASTE LIGNOCELLULOSIC BIOMASS USING RESPONSE SURFACE METHODOLOGY**
MERYEMOĞLU B., KAYA ÖZSEL B., NİŞ B.
9th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL MEDICAL SCIENCES, 8 - 10 November 2019
- V. ISOTOPIC APPROACH TO PLANT BASED ALCOHOL/METHANOL MIXTURES BY MEANS OF C13/C12 ANALYSIS**
MERYEMOĞLU B., SEVİNDİK O.
1ST. INTERNATIONAL CONFERENCE OF RESEARCH ON AGRICULTURAL AND FOOD TECHNOLOGIES, 3 - 05 October 2019
- VI. Comparison of activated carbon supported metal catalyst efficiencies of biomass hydrolysates for hydrogen gas production**
MERYEMOĞLU B., KURTULUŞ M., FAKI E., HASANOĞLU A., IRMAK S.
14th International Conference on Energy Storage, 25 - 28 April 2018
- VII. UTILIZATION OF AGRICULTURAL BY-PRODUCTS FOR ACTIVATED CARBON PRODUCTION AND ITS USE**

AS CATALYST SUPPORT

KAYA ÖZSEL B., NİŞ B., MERYEMOĞLU B., HASANOĞLU A.

The International Porous and Powder Materials Symposium and Exhibition, 12 - 15 September 2017

- VIII. **Influence of type of carbon support on the reforming activity and selectivity of supported Pt catalysts for APR of glucose**
OZSEL B. K. , MERYEMOĞLU B., Kurtulus M., HASANOĞLU A., IRMAK S.
The 6th Catalysis Conference, Bursa, Turkey, 27 April 2017 - 30 April 2016, pp.102
- IX. **Low Temperature-Steam Phase Catalytic Gasification of Biomass Hydrolysates**
HASANOĞLU A., MERYEMOĞLU B., demirci İ., IRMAK S.
2. Uluslararası Hidrojen Teknolojileri Kongresi, 15 - 18 March 2017
- X. **High-Yield Hydrogen Production Through Aqueous-Phase Reforming of Biomass Hydrolysate Over Carbon Nanotube Supported Pt Catalysts**
KAYA ÖZSEL B., MERYEMOĞLU B., NİŞ B., HASANOĞLU A.
2. Uluslararası Hidrojen Teknolojileri Kongresi, 15 - 18 March 2017
- XI. **Effect of Temperature on Catalytic Gasification of Biomass for Hydrogen Production**
MERYEMOĞLU B., KURTULUŞ M., DEMİRCİ İ., HASANOĞLU A., IRMAK S.
2. Uluslararası Hidrojen Teknolojileri Kongresi, 15 - 18 March 2017
- XII. **High Yield Hydrogen Production Through Aqueous-Phase Reforming of Biomass Hydrolysate Over Carbon Nanotube Supported Pt Catalysts**
OZSEL B. K. , MERYEMOĞLU B., NİŞ B., HASANOĞLU A.
2 nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017, pp.50
- XIII. **Some soil properties of different depth under wheat culture in Çukurova region**
KIZILDAĞ N., MERYEMOĞLU B.
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- XIV. **Some soil properties of the different depth under wheat culture in Çukurova region**
KIZILDAĞ N., MERYEMOĞLU B.
The 1th International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- XV. **The Catalytic Gasification of Kenaf Water Mixtures Under Mild Condition**
HASANOĞLU A., Demirci İ., MERYEMOĞLU B.
The 1th International Mediterranean Science and Engineering Congress, Turkey, 26 - 28 October 2016
- XVI. **The Effect of Irrigation with Biomass Hydrolysates on Soil**
MERYEMOĞLU B., KIZILDAĞ N., KILIÇ ÇETİN S.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.2416
- XVII. **Investigation of Dyeing Properties of Natural Dyes Obtained from Lignocellulosic Biomass**
MERYEMOĞLU B.
The 1th International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- XVIII. **The Effect of Organic Solvents On Biomass Hydrolysis**
Kurtulus M., MERYEMOĞLU B., HASANOĞLU A., IRMAK S.
The 1th International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.2334
- XIX. **Comparison of solubilization efficiencies of perennial grasses and agricultural biomass residues in subcritical water for high yielding hydrogen gas production**
IRMAK S., MERYEMOĞLU B.
ASABE Annual International Meeting, 17 - 20 July 2016
- XX. **Xylitol production from corn biomass residues**
CANISAG H., VOKOUN C., MERYEMOĞLU B., IRMAK S.
Corn Utilization Technology Conference, 6 - 08 June 2016
- XXI. **THE EFFECT OF PEROXIDE ON BIOMASS HYDROLYSIS AND CATALYTIC GASIFICATION OF HYDROLYSATES**
Kurtulus M., MERYEMOĞLU B., HASANOĞLU A., IRMAK S.
The 6th Catalysis Conference, Turkey, 27 - 30 April 2016

- XXII. **Preparation supported Pt and Ru catalysts and their performances in AVPR Process**
MERYEMOĞLU B., KURTULUŞ M., HASANOĞLU A., IRMAK S.
The 6th Catalysis Conference, Turkey, 27 - 30 April 2016
- XXIII. **The effect of peroxide on biomass hydrolysis and catalytic gasification on hydrolysates**
KURTULUŞ M., MERYEMOĞLU B., HASANOĞLU A., IRMAK S.
The 6th Catalysis Conference, Turkey, 27 - 30 April 2016
- XXIV. **LİGNOSELÜLOZİK BİYOKÜTLE HİDROLİZATLARININ GAZLAŞTIRILMASINDA KULLANILMAK ÜZERE AKTİF KATALİZÖR GELİŞTİRİLMESİ**
MERYEMOĞLU B., IRMAK S., HASANOĞLU A., ERBATUR O.
5. Ulusal Kataliz Kongresi, Turkey, 23 - 26 April 2016
- XXV. **EFFECT OF MICROWAVE PRE-TREATMENT ON THE SOLUBILIZATION OF LIGNOCELLULOSIC BIOMASS IN SUBCRITICAL WATER FOR PRODUCTION OF BIOFUELS AND BIOPRODUCTS**
IRMAK S., MERYEMOĞLU B., SANDIP A., SUBBIAH J., SARATH G.
UNL Biofuels and Bioproducts Symposium, 18 September 2015
- XXVI. **SULU FAZ REFORMLAMA YÖNTEMİYLE HİDROJEN GAZI OLUŞTURMADA KULLANILAN KATALİZÖRÜN DESTEK MATERYALİNİN PARTİKÜL BOYUTUNUN ETKİSİ**
MERYEMOĞLU B., KAYA ÖZSEL B., IRMAK S., HASANOĞLU A., ERBATUR O.
VI. Ulusal Analitik Kimya Kongresi, Turkey, 3 - 07 September 2012
- XXVII. **BİYOKÜTLEDEN SULU ORTAMDA HİDROJENCE ZENGİN GAZ KARIŞIMI ELDE ETMEK İÇİN AKTİF KARBON DESTEKLİ PLATİN KATALİZÖRLERİN GELİŞTİRİLMESİ**
MERYEMOĞLU B., IRMAK S., HASANOĞLU A., ERBATUR O.
VI. ULUSAL ANALİTİK KİMYA KONGRESİ, Turkey, 3 - 07 September 2012
- XXVIII. **Aqueous phase reforming of lignocelulosic biomass for hydrogen gas production**
KURTULUŞ M., IRMAK S., MERYEMOĞLU B., KAYA ÖZSEL B., HASANOĞLU A., ERBATUR O.
18th European Biomass Conference and Exhibition, 3 - 07 May 2010
- XXIX. **DEVELOPING AQUEOUS PHASE REFORMING CATALYSTS VIA DOPING PLATINUM ON VARIOUS CARBON MATERIALS FOR HYDROGEN GAS PRODUCTION FROM LIGNOCELLULOSIC HYDROLYSATES**
KAYA ÖZSEL B., MERYEMOĞLU B., HASANOĞLU A., IRMAK S., ERKEY C., ERBATUR O.
Turkish-Japan Joint Carbon Symposium, 18 - 19 March 2010
- XXX. **Buğday Samanının Farklı Katalizörler Kullanılarak Sulu Faz Reformlama Yöntemi ile Gazlaştırılması**
MERYEMOĞLU B., HASANOĞLU A., IRMAK S., ATANUR O. M. , ERBATUR O.
IV. ULUSAL HİDROJEN ENERJİSİ KONGRESİ ve SERGİSİ, Turkey, 15 - 16 October 2009
- XXXI. **Hydrolysis of wheat straw biomass via catalytic thermal treatment in subcritical water**
IRMAK S., HASANOĞLU A., OZTURK I., MERYEMOĞLU B., KAYA ÖZSEL B., BALIN T., ERBATUR O.
2008 AACC International Annular Meeting, 21 - 24 September 2008
- XXXII. **Katalitik ısı ile hidroliz edilen lignoselüloziklerden oluşan ürünlerin boyut dışlama kromatografisi (SEC) ve HPLC ile analizleri**
IRMAK S., HASANOĞLU A., OZTURK I., MERYEMOĞLU B., KAYA ÖZSEL B., BALIN T.
IV. Ulusal Analitik Kimya Kongresi, Turkey, 25 - 27 June 2008

Supported Projects

MERYEMOĞLU B., NİŞ B., KAYA ÖZSEL B., Project Supported by Higher Education Institutions, Biyokütle Hidrolizatlarından Organik Asit Üretimi, 2021 - Continues

KIZILDAĞ N., AKA SAĞLIKER H., MERYEMOĞLU B., Project Supported by Higher Education Institutions, Biyolojik olarak sentezlenen Gümüş Ag NPs ve Palladium Pd NPs nanopartiküllerinin toprak C ve N mineralizasyonuna etkileri, 2020 - Continues

KARDAŞ G., KIZILDAĞ N., EKİCİBİL A., MERYEMOĞLU B., ÇALYAN U., TAKCI D. K. , KILIÇ ÇETİN S., Project Supported by Higher Education Institutions, Çukurova Üniversitesi Merkezi Araştırma Laboratuvarının Güçlendirilmesi, 2018 - 2021

KARDAŞ G., KIZILDAĞ N., KILIÇ ÇETİN S., MERYEMOĞLU B., EKİCİBİL A., TAKCI D. K. , ÇALYAN U., Project Supported by

Higher Education Institutions, Çukurova Üniversitesi Merkezi Araştırma Laboratuvarındaki Sıvı Azot Üretim Cihazının Kapasite ve Depolama Hacminin Arttırılması ve Sıvı Azot Üretim Laboratuvarının Geliştirilmesi, 2017 - 2021
MERYEMOĞLU B., KILIÇ ÇETİN S., KIZILDAĞ N., Project Supported by Higher Education Institutions, Sorgum hidrolizatlarının fenolik içeriklerinin belirlenmesi ve gazlaştırmaya etkisi, 2017 - 2018
KILIÇ ÇETİN S., MERYEMOĞLU B., KIZILDAĞ N., Project Supported by Higher Education Institutions, Ba-Katkılı Lantanit Manganit Bileşiklerinin Manyetik ve Manyetokalorik Özelliklerinin İncelenmesi, 2016 - 2017
KIZILDAĞ N., KILIÇ S., MERYEMOĞLU B., Project Supported by Higher Education Institutions, Anız yakmanın toprak organik madde mineralizasyonuna etkileri, 2016 - 2017
MERYEMOĞLU B., KILIÇ S., KIZILDAĞ N., Project Supported by Higher Education Institutions, Kenaf Hidrolizatlarının Toprak Verimliliğine ve Fasulye Bitkisi Gelişimine Etkisi, 2016 - 2016

Edit Congress and Symposium Activities

1st International Mediterranean Science and Engineering Congress, Attendee, Adana, Turkey, 2016
ASABE Annual International Meeting, Attendee, Florida, United States Of America, 2016
Corn Utilization & Technology Conference, Attendee, Missouri, United States Of America, 2016
The 6th Catalysis Conference, Attendee, Bursa, Turkey, 2016
Biofuels and Bioproducts Symposium, Attendee, Nebraska, United States Of America, 2015
International Porous Powder Material, Attendee, İzmir, Turkey, 2015
5. Ulusal Kataliz Kongresi, Attendee, Adana, Turkey, 2014
6. Ulusal Analitik Kimya Kongresi, Hatay, Attendee, Turkey, 2012
18th European Biomass Conference and Exhibition, Attendee, Lyon, France, 2010
Carbon Materials for Today and Future Turkish-Japanese Joint Carbon Symposium, Attendee, İstanbul, Turkey, 2010
IV. Ulusal Hidrojen Enerjisi Kongresi ve Sergisi, Attendee, Kocaeli, Turkey, 2009
AACC International Annual Meeting, Attendee, Hawaii, United States Of America, 2008
4th National Analytical Chemistry Congress, Attendee, Elazığ, Turkey, 2008

Citations

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