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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Turkey 2013 - 2019

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Marmara University, Faculty Of Engineering, Chemical Engineering, Turkey 2004 - 2009

Foreign Languages

English, C1 Advanced

German, A2 Elementary

Dissertations

Doctorate, Kobalt ve nikel içerikli destekli katalizörlerin sentezi, karakterizasyonu ve sodyum borhidrürden hidroliz tepkimesi ile hidrojen üretiminde kullanılması, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), 2018

Postgraduate, Manyezit artıkları ile sulu çözeltilerden nikel ve kadmiyum giderimi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), 2013

Research Areas

Chemical Engineering and Technology, Basic Operations and Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, 2011 - Continues

Courses

PHARMACEUTICAL PRODUCTION PROCESSES, Undergraduate, 2022 - 2023

Renewable Energy, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
ANALYTICAL CHEMISTRY LABORATORY, Undergraduate, 2022 - 2023
PROFESSIONAL ENGLISH II, Undergraduate, 2022 - 2023
Chemical Engineering Laboratory III, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Chemical Engineering Laboratory I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020
Chemical Engineering Laboratory II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021
PROFESSIONAL ENGLISH I, Undergraduate, 2022 - 2023
Thermodynamics II, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydrogen generation from sodium borohydride hydrolysis using a heterogeneous biocatalyst prepared with Zabrus tenebrionides Goeze 1777 (Coleoptera: Carabidae) chitin**
HOŞGÜN S., FİDAN E. C., HOŞGÜN E. Z., ŞİRİN D. Ü.
POLYMER BULLETIN, vol.81, no.12, pp.10841-10857, 2024 (SCI-Expanded)
- II. **Chemical, structure and thermal characterisation of biowaste fish bone parts for orthopaedic coatings** *Caractérisation chimique, structurelle et thermique de pièces d'arêtes de poisson de biodéchets pour revêtements orthopédiques*
Öteyaka M. Ö., Köse E., Hoşgün S., Aksu S., Çınar E., Emiroğlu Ö.
Canadian Metallurgical Quarterly, 2023 (SCI-Expanded)
- III. **OPTIMIZATION OF HYDROGEN GENERATION BY CATALYTIC HYDROLYSIS OF NaBH₄ WITH HALLOYSITE-SUPPORTED CoB CATALYST USING RESPONSE SURFACE METHODOLOGY**
Hoşgün S., Özdemir M., Buruk Şahin Y.
Clays And Clay Minerals, vol.1, no.69, pp.128-141, 2021 (SCI-Expanded)
- IV. **Efficient Removal of Reactive Orange 13 with Magnetic *Mucor circinelloides* from Mill Scale**
AYTAR ÇELİK P., ABUTAHA A. M., NURAL YAMAN B., ÇAKMAK H., HOŞGÜN S., ÇABUK A.
Desalination And Water Treatment, vol.226, pp.347-361, 2021 (SCI-Expanded)
- V. **Kinetics, equilibrium and thermodynamics studies on Cd(II) removal from aqueous solution by magnesite tailing**
Erol S., ÖZDEMİR M.
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.25, no.3, pp.246-254, 2018 (SCI-Expanded)
- VI. **Removal of nickel from aqueous solution using magnesite tailing**
Erol S., ÖZDEMİR M.
DESALINATION AND WATER TREATMENT, vol.57, no.13, pp.5810-5820, 2016 (SCI-Expanded)
- VII. **Increased removal of Reactive Blue 72 and 13 acidic textile dyes by *Penicillium ochrochloron* fungus isolated from acidic mine drainage**
AYTAR ÇELİK P., Bozkurt D., Erol S., ÖZDEMİR M., ÇABUK A.
DESALINATION AND WATER TREATMENT, vol.57, no.41, pp.19333-19343, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **EFFICIENT DRUG CARRIER FOR ACETYLSALICYLIC ACID FROM CHITOSANBASED COMPOSITES PREPARED WITH MONTMORILLONITE, CELLULOSE AND HYDROXYAPATITE**
Sezer D., Aktaş Z., Hoşgün S., Hoşgün E. Z., Bozan B.
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.25, no.2, pp.368-379, 2024 (Peer-Reviewed Journal)
- II. **Optimization of hydrogen generation rate with Co/MMT catalyst from NaBH₄ using box-behnken**

method

Hoşgün S., Hoşgün E. Z.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.30, no.1, pp.87-94, 2024 (Peer-Reviewed Journal)

III. **Talaromyces aculeatus from acidic environment as a new fungal biosorbent for removal of some reactive textile dyes**

Katar Ş., Erol S., Aytar Çelik P., Özdemir M., Çabuk A.

ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY - A Applied Sciences and Engineering, vol.18, pp.521-534, 2017 (Peer-Reviewed Journal)

IV. **DEVELOPMENT OF Co - B / MAGNESITE CATALYST FOR HYDROGEN GENERATION BY HYDROLYSIS OF SODIUM BOROHYDRIDE**

EROL S., ÖZDEMİR M.

Journal of The Turkish Chemical Society: Section B Engineering, vol.1, no.2, pp.69-76, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Synthesis of Nanocrystalline Cellulose From Watermelon Peel Albedos and Analysis of Its Surface Properties by Inverse Gas Chromatography**

Hoşgün S., Bilgiç C.

7th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 2 - 04 October 2024, pp.604-607

II. **Synthesis of Co/HTC Catalyst Derived from Hazelnut Shell for Efficient Hydrogen Production by Methanolysis**

Hoşgün S.

7th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 2 - 04 October 2024, pp.570-573

III. **RECOVERY OF PHENOLIC COMPOUNDS FROM OLIVE MILL WASTEWATER WITH MODIFIED MONTMORILLONITE CLAY**

Hoşgün E. Z., Hoşgün S., Bozan B.

19. ULUSAL KİL SEMPOZYUMU, Eskişehir, Turkey, 6 - 09 September 2023, pp.1-3

IV. **SYNTHESIS AND CHARACTERIZATION OF ZEOLİTE A AND ZEOLİTE X FROM NATURAL KAOLIN**

Hoşgün S., Bilgiç C., Çiftci A.

19. ULUSAL KİL SEMPOZYUMU, Eskişehir, Turkey, 6 - 09 September 2023, pp.1-3

V. **Tekstil Endüstrisinde Kullanılan Boyarmadde Gideriminde Manyetik Biyosorbentin Değerlendirilmesi**

Abutaha MK A., NURAL YAMAN B., ÇAKMAK H., HOŞGÜN S., AY TAR ÇELİK P., ÇABUK A.

ULUSLARARASI KATILIMLI 20. ULUSAL BİYOTEKNOLOJİ KONGRESİ, Ankara, Turkey, 10 - 12 October 2019

VI. **Catalytic properties of Co-B/ Catalytic properties of Co-B / γ -Al₂O₃ catalyst for hydrogen generation by hydrolysis of NaBH₄**

HOŞGÜN S., ÖZDEMİR M.

2 nd International Eurasian Conference on Biological and Chemical Sciences (Eurasian BioChem 2019), Ankara, Turkey, 28 - 29 June 2019

VII. **Co-B / Diaion catalyst for NaBH₄ for hydrogen generation by NaBH₄ hydrolysis reaction**

HOŞGÜN S., ÖZDEMİR M.

2 nd International Eurasian Conference on Biological and Chemical Sciences (Eurasian BioChem 2019), Ankara, Turkey, 28 - 29 June 2019

VIII. **Sepiolite Supported Co-Ce-B Catalyst for Hydrogen Generation from NaBH₄**

EROL S., ÖZDEMİR M.

RR2018, 24 - 26 October 2018

IX. **Co-Ni-B/ MAGNESITE CATALYST FOR HYDROGEN GENERATION BY HYDROLYSIS OF SODIUM**

BOROHYDRIDE

EROL S., ÖZDEMİR M.

3 rd International Porous Powder Materials Symposium Exhibition, Kuşadası / Aydın, Turkey, 12 - 15 September 2017

X. HYDROGEN GENERATION BY HYDROLYSIS OF SODIUM BOROHYDRIDE ON Co - B CATALYST

EROL S., ÖZDEMİR M.

3 rd International Porous Powder Materials Symposium Exhibition, Kuşadası / Aydın, Turkey, 12 - 15 September 2017

XI. Ni-B / SEPIOLITE CATALYST FOR HYDROGEN GENERATION BY HYDROLYSIS OF SODIUM BOROHYDRIDE

EROL S., ÖZDEMİR M.

3 rd International Porous Powder Materials Symposium Exhibition, Kuşadası / Aydın, Turkey, 12 - 15 September 2017

XII. Hydrogen generation from NaBH₄ solution using Co B sepiolite catalyst

EROL S., ÖZDEMİR M.

9th International Conference on Sustainable Energy & Environmental Protection Conference, Kayseri, Turkey, 22 - 25 September 2016

XIII. Development of Co B Sepiolite Catalysts for Hydrogen Generation by Hydrolysis of Sodium Borohydride

EROL S., ÖZDEMİR M.

NCC6 - The 6th Catalysis Conference, 27 - 30 April 2016

XIV. Asidik Maden Drenajından İzole Edilen Taloromyces sp ile Bazı Asidik Reaktif Boyarmaddelerin Biyosorpsiyonu

KATAR Ş., EROL S., AYTAR ÇELİK P., ÖZDEMİR M., ÇABUK A.

18.BİYOTEKNOLOJİ KONGRESİ, Konya, Turkey, 18 - 19 December 2015

XV. Tekstil Endüstrisinde Kullanılan Reaktif Boyarmaddelerin Adsorpsiyon Kinetiğinin İncelenmesi

EROL S., KATAR Ş., AYTAR ÇELİK P., ÇABUK A., ÖZDEMİR M.

18. BİYOTEKNOLOJİ KONGRESİ, Konya, Turkey, 18 - 19 December 2015

XVI. Hydrogen Generation from Sodium Borohydride Hydrolysis Using Co B Catalyst on Supported Sepiolite

Erol S., Özdemir M.

ITWCCST 2015, International Turkic World Conference on Chemical Sciences and Technologies, Sarajevo, Bosnia And Herzegovina, 27 - 29 October 2015

XVII. CoB sepiolite catalyst for hydrogen generation from sodium borohydride hydrolysis

Erol S., Özdemir M.

GCSTI 2015, 1st International Conference on Green Chemistry and Sustainable Technologies, İzmir, Turkey, 30 September - 03 October 2015

XVIII. Sepiolit ile sulu çözeltilerden kadmiyum II iyonunun giderilmesi

KIPÇAK İ., GÜRAKAN C., EROL S.

11.Ulusal kimya mühendisliği kongresi, Turkey, 2 - 05 September 2014

XIX. Sepiolit ile Sulu Çözeltilerden Cd II İyonunun Giderilmesi

KIPÇAK İ., EROL S., Gürakan C.

11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, pp.650-651

XX. Asidik maden Drenajından İzole edilen Penicillium ochrochloron ile Bazı Asidik Tekstil Boyar Maddelerin Gideriminin Optimizasyonu

AYTAR ÇELİK P., BOZKURT D., EROL S., ÖZDEMİR M., ÇABUK A.

22. ULUSAL BİYOLOJİ KONGRESİ, Eskişehir, Turkey, 23 - 27 June 2014

XXI. Removal of Cadmium Ions from Aqueous Solutions by Magnesite Tailing Kinetic and Thermodynamic Studies

EROL S., ÖZDEMİR M.

ICOEST 2014, 2nd International Conference on Environmental Science and Technology, 14 - 17 May 2014

XXII. Removal of Cadmium Ion from Aqueous Solutions by Magnesite Tailing

EROL S., ÖZDEMİR M.

WCCE9, 9th World Congress of Chemical Engineering, 18 - 23 August 2013

XXIII. Removal of Nickel Ions from Aqueous Solutions by Magnesite Tailing Kinetic and Thermodynamic Studies

EROL S., ÖZDEMİR M.

ICOEST 2013, 1st International Conference on Environmental Science and Technology, 18 - 21 June 2013

XXIV. Nickel Removal from Aqueous Solution by Magnesite Tailing

ÖZDEMİR M., EROL S.

International Conference on Recycling and Reuse, İstanbul, Turkey, 4 - 06 June 2012

Supported Projects

BİLGİÇ C., HOŞGÜN E. Z., HOŞGÜN S., Project Supported by Higher Education Institutions, Ambalajlama Teknolojisi için Sürdürülebilir Çevre Dostu (Yeşil) Kompozitlerin Sentezlenmesi ve Karakterizasyonu, 2023 - Continues

Hoşgün S., Hoşgün E. Z., Bozan B., Project Supported by Higher Education Institutions, ZrO₂ katalizör varlığında ayçiçek saplarından hidrotermal sıvılaştırma ile biyoyağ üretimi, 2023 - 2024

Hoşgün S., Hoşgün E. Z., Bozan B., Project Supported by Higher Education Institutions, Zeytin karasuyundan fenolik bileşiklerin modifiye edilmiş Montmorillonit kili kullanılarak geri kazanımı, 2022 - 2023

Hoşgün E. Z., Hoşgün S., Project Supported by Higher Education Institutions, Zeytin pürnasından katalitik hidrotermal sıvılaştırma yöntemiyle biyoyağ üretiminin biyorafineri yaklaşımıyla değerlendirilmesi, 2021 - 2022

Kıpçak İ., Özdemir M., Hoşgün S., Kurtaran Ersal E., Project Supported by Higher Education Institutions, Boyar Madde İçeren Çözeltilerin Katalitik Islak Peroksit Oksidasyonunda ve Sodyum Borhidürün Hidroliz Tepkimesinden Hidrojen Üretiminde Kullanılmak Üzere Destekli Katalizörler Geliştirilmesi, 2016 - 2020

Scientific Refereeing

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, October 2023

Bilge International Journal of Science and Technology Research, Other Indexed Journal, April 2023

DESALINATION AND WATER TREATMENT, Journal Indexed in SCI-E, March 2021

Metrics

Publication: 35

Citation (WoS): 12

Citation (Scopus): 15

H-Index (WoS): 2

H-Index (Scopus): 2

Awards

Hoşgün S., 1st Place in the GCSTI 2015 Poster Competition, Gcsti, 1st International Conference On Green Chemistry And Sustainable Technologies, May 2015