

Assoc. Prof. Hatice BAYRAKÇEKEN

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2003 - 2010

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1999 - 2003

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1995 - 1999

Certificates, Courses and Trainings

Education Management and Planning, Materials Characterization Using Thermal Analysis, Anadolu Üniversitesi, 2012

Dissertations

Doctorate, FOSFAT KAYASININ TERMAL DAVRANIŞININ İNCELENMESİ, Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, 2010

Postgraduate, MARDİN-MAZIDAĞI FOSFAT KAYASI İLE BACA GAZI DESÜLFÜRİZASYONU ESNASINDA KARBONDİOKSİTİN ETKİSİNİN İNCELENMESİ, Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, 2003

Research Areas

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

Academic Titles / Tasks

Associate Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2022 - Continues

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2018 - Continues

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2014 - 2018

Research Assistant PhD, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2010 - 2014

Academic and Administrative Experience

Deputy Head of Department, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2016 - Continues

Courses

Analitik Kimya ve Enstrümental Analiz, Undergraduate, 2023 - 2024

Nano Teknolojiye Giriş, Undergraduate, 2022 - 2023

Kimya Mühendisliği Laboratuvarı I, Undergraduate, 2019 - 2020

İleri Kimya Mühendisliği Termodinamiği 2, Doctorate, 2018 - 2019

Genel Kimya, Undergraduate, 2018 - 2019

Nanoteknolojiye Giriş , Undergraduate, 2013 - 2014

Elektrokimya, Undergraduate, 2010 - 2011

Advising Theses

BAYRAKÇEKEN H., İNSAN SAÇINDAN ÜRETİLMİŞ AKTİF KARBONUN KULLANIMI, Postgraduate, O.KOTAN(Student), 2019

BAYRAKÇEKEN H., POLİPİROL/METALOKSİT KOMPOZİTLERİNİN SENTEZİ VE KARAKTERİZASYONU, Postgraduate, F.Sena(Student), 2019

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunması , Atatürk Üniversitesi , July, 2019

Post Graduate, Yüksek Lisans Tez Savunması , Atatürk Üniversitesi , July, 2017

Doctoral Examination, Doktora Yeterlilik Sınavı , Atatürk Üniversitesi , February, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recycled human hair-derived activated carbon for energy-related applications**
Kotan O., BAYRAKÇEKEN H.
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.1, pp.184-192, 2021 (SCI-Expanded)
- II. **Experimental investigation of mechanical and modal properties of Al₂O₃ nanoparticle reinforced polyurethane core sandwich structures**
Khan T., Aydın O. A., ACAR V., Aydın M. R., HÜLAGÜ B., BAYRAKÇEKEN H., Seydibeyoğlu M. Ö., AKBULUT H.
Materials Today Communications, vol.24, 2020 (SCI-Expanded)
- III. **Investigation of combustion kinetics of Umutbaca-lignite by thermal analysis technique**
NAKTİYOK J., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.129, no.1, pp.531-539, 2017 (SCI-Expanded)
- IV. **In vitro and in vivo evaluation of alginate and alginatechitosan beads containing metformin hydrochloride**
Mokhtare B., Çetin M., Ozakar R., Bayrakçeken H.
Tropical Journal of Pharmaceutical Research, vol.16, no.2, pp.287-296, 2017 (SCI-Expanded)
- V. **Investigation of the Thermal Behavior of Polypyrrole/Carbon Nanotube Composites and Utilization as Capacitive Material or Support for Catalysts**
Bayrakçeken H., Naktiyok J., Özer A., Bayrakçeken Yurtcan A.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.204, no.8, pp.916-925, 2017 (SCI-Expanded)
- VI. **Kinetics of thermal decomposition of phospholipids obtained from phosphate rock**
NAKTİYOK J., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M.
FUEL PROCESSING TECHNOLOGY, vol.116, pp.158-164, 2013 (SCI-Expanded)

- VII. **Flue Gas Desulfurization by Calcined Phosphate Rock and Reaction Kinetics**
NAKTİYOK J., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M. Ş.
ENERGY & FUELS, vol.27, no.3, pp.1466-1472, 2013 (SCI-Expanded)
- VIII. **The effect of carbon dioxide during the desulfurization of flue gas with Mardin-Mazidagi phosphate rock**
SINIRKAYA M., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M.
FUEL, vol.87, pp.3200-3206, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Pyrolytic Degradation Behavior of Biomass Seeds: Cherry And Peach Seed**
ÇORUH M. K., BAYRAKÇEKEN H.
Kocaeli Journal of Science and Engineering , vol.3, no.2, pp.46-65, 2020 (Peer-Reviewed Journal)
- II. **Determination Of Pyrolysis Kinetics Of Pistachio Shell And Cranberry Seed**
BAYRAKÇEKEN H., KIZILCA M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.12, pp.847-856, 2020 (Peer-Reviewed Journal)
- III. **Preparation of Metformin HCl loaded Chitosan Microspheres and In vitro Characterization Studies**
MOKHTARE B., ÇETİN M., SEVİNÇ ÖZAKAR R., BAYRAKÇEKEN H.
Hacettepe University Journal of the Faculty of Pharmacy, vol.35, no.1, pp.74-86, 2015 (Peer-Reviewed Journal)
- IV. **Non-isothermal calcination kinetics of phosphate rock**
BAYRAKÇEKEN H., NAKTİYOK J., OKUR H., ÖZER A., GÜLABOĞLU M. Ş.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 2014 (Peer-Reviewed Journal)
- V. **Pirit Mineralinin CO₂ Atmosferinde Termal Bozunmasında Su Buharının Etkisi**
BOYABAT N., BAYRAKÇEKEN H., BAYRAKÇEKEN S.
İğdir Univ. J. Inst. Sci. & Tech., vol.2, no.3, pp.79-84, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **İş Yerlerinde Kimyasal Kirlilik Ve Korunma**
Bayrakçeken H.
in: İş Hijyeni, Zülal ÖZKURT, Editor, Atatürk Üniversitesi Açıköğretim Fakültesi, Erzurum, pp.126-145, 2019
- II. **Binalarda Kimyasal Etkenler**
BAYRAKÇEKEN H.
in: Bina Yönetim Sistemleri, Albayrak, Z.N., Editor, Atatürk Üniversitesi Açık Öğretim Fakültesi, Erzurum, pp.2-14, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Determination Of Pyrolysis Kinetics Of Pistachio Shell And Cranberry Seed**
BAYRAKÇEKEN H., KIZILCA ÇORUH M.
INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY, Putrajaya, Malaysia, 19 - 20 August 2019, pp.111-112
- II. **Investigation on the Thermal Behaviour of Eggshell**
BAYRAKÇEKEN H., MAZLUMOĞLU H.
INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY, Putrajaya, Malaysia, 19 - 20 August 2019, pp.92-94
- III. **INVESTIGATION OF PYROLYSIS KINETICS OF NON-ISOTHERMAL CONDITIONS FROM BIOMASS SEEDS**
KIZILCA M., BAYRAKÇEKEN H.

MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, Erzurum, Turkey, 2 - 05 May 2019

- IV. **SYNTHESIS OF ACTIVATED CARBON BY HUMAN HAIR OF DIFFERENT AGES**
KOTAN O., BAYRAKÇEKEN H.
3rd International Energy & Engineering Congress, Gaziantep, Turkey, 18 - 19 October 2018, pp.944-949
- V. **Polipirol Esash Kompozit Malzemelerin Sentezi**
ÖZPEKER F. S., BAYRAKÇEKEN H.
13.ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Van, Turkey, 3 - 06 September 2018, pp.172-173
- VI. **EFFECTS OF CD HP CD AND PVP K30 ON THE SOLUBILITY OF DAIDZEIN**
SERVER B., ÖZAKAR E., BAYRAKÇEKEN H., ÇETİN M.
18th International Pharmaceutical Technology Symposium, 18 - 21 September 2016
- VII. **Alginate-chitosan (CS) beads for oral delivery of metformin HCl**
Mokhtare B., Sevinç Özakar R., Çetin M., Bayrakçeken H.
17th International Pharmaceutical Technology Symposium, Antalya, Turkey, 8 - 10 September 2014, pp.275-276
- VIII. **Capacitive properties of polypyrrole carbon nanotube composites**
BAYRAKÇEKEN YURTCAN A., BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A.
The Sixth International Exergy, Energy and Environment Symposium, 1 - 04 July 2013
- IX. **Thermal properties of poly ethylene oxide montmorillonite nanocomposites prepared using by sol gel method**
KARACA S., GÜRSES A., BAYRAKÇEKEN H., KADER Y., MURAT K.
", 9. Ulusal Nanobilim ve Nanoteknoloji Konferans, Turkey, 24 - 28 June 2013
- X. **Non isothermal Decomposition Kinetics and Synthesis of Nano Nickel Borate**
EDA K. G., BAYRAKÇEKEN H., NAKTİYOK J., BAYRAKÇEKEN YURTCAN A., ÖZER A.
1st International Chemistry and Chemical Engineering Conference, 18 - 21 April 2013
- XI. **Farklı Reaktantlarla Nano Boyutta CuO Sentezi**
BOZKURT G., BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A.
10. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2012
- XII. **Fosfat Kayası İçindeki Çözünür Organik Maddenin İzotermal Olmayan Bozunma Kinetiği**
NAKTİYOK J., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M. Ş.
10. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2012
- XIII. **Alternative sorbent to CO2 capture**
BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A., GÜLABOĞLU M. Ş.
12th International Combustion Symposium, 24 - 26 May 2012
- XIV. **Flue gas desulfurization with the phosphate rock impregnated by different salt solutions**
NAKTİYOK J., BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M. Ş.
12th International Combustion Symposium, 24 May - 26 April 2012
- XV. **Thermal Behaviour Of Phosphate Rock In Calcination Carbonation Cycles For CO2 Capture**
BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A., GÜLABOĞLU M. Ş.
2nd International Conference On Air Pollution An Control, Antalya, Turkey, 19 - 23 September 2011
- XVI. **Effect of SO2 Concentration At The Flue Gas Desulphurization With Calcined Phosphate Rock**
BAYRAKÇEKEN H., NAKTİYOK J., ÖZER A., GÜLABOĞLU M. Ş.
2nd International Conference On Air Pollution An Control, Antalya, Turkey, 19 September 2011 - 23 September 2004
- XVII. **Fosfat Kayasının Termogravimetrik Olarak Kalsinasyon Kinetiği**
BAYRAKÇEKEN H., OKUR H., ÖZER A., GÜLABOĞLU M. Ş.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XVIII. **Mardin Mazıdağı Fosfat Kayası İle Baca Gazı Desülfürizasyonu Esnasında Karbondioksitin Etkisinin İncelenmesi**
BAYRAKÇEKEN H., ÖZER A., GÜLABOĞLU M. Ş.
6. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 7 - 10 September 2004

Supported Projects

Çelik N., Kılıç M., Bayrakçeken A., Bayrakçeken H., TUBITAK Project, Dental Kompozit Rezinlerde Zeolitik İmidazol Çerçeve Kullanımı, 2024 - 2026

BAYRAKÇEKEN H., BAYRAKÇEKEN YURTCAN A., KILIÇ M., Project Supported by Higher Education Institutions, Dental kompozit rezinlerin fiziksel ve antibakteriyel özelliklerinin geliştirilmesi, 2022 - 2024

BAYRAKÇEKEN H., BAYRAKÇEKEN YURTCAN A., KILIÇ M., Project Supported by Higher Education Institutions, Yeni antibakteriyel özellikli cam iyonomer simanların geliştirilmesi, 2022 - 2024

BAYRAKÇEKEN H., KILIÇ M., BAYRAKÇEKEN YURTCAN A., Project Supported by Higher Education Institutions, Yeni bir diş macununun materyal özelliklerinin geliştirilmesi, 2022 - 2024

BAYRAKÇEKEN H., BAYRAKÇEKEN YURTCAN A., KILIÇ M., Project Supported by Higher Education Institutions, Diş pulpası kuafaj materyalinin özelliklerinin geliştirilmesi, 2022 - 2024

ÖZ E., BAYRAKÇEKEN H., ÖZ F., Project Supported by Higher Education Institutions, Farklı firm poşetlerinin termal ve yapısal özelliklerinin ette BisfenolA migrasyonu üzerine etkisi, 2022 - 2023

TEKİN T., BAYRAKÇEKEN H., Project Supported by Higher Education Institutions, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2018 - 2019

TEKİN T., DEMİR F., BAYRAKÇEKEN H., Project Supported by Higher Education Institutions, MEMBRAN DESTEKLİ NANOTÜP VE İNCE FİLM TiO₂ FOTOKATALİZÖRLERİNİN ÜRETİMİ VE KARAKTERİZASYONU, 2016 - 2017

BAYRAKÇEKEN H., Project Supported by Higher Education Institutions, "FARKLI SORBENTLER İLE CO₂'İN DÖNGÜSEL TUTULMASI", 2012 - 2014

Scientific Refereeing

CHEMICAL ENGINEERING JOURNAL, SCI Journal, September 2021

Scientific Publication, Kimya Mühendisliği Bölümü , Ataturk University, Turkey, March 2021

Scientific Publication, Chemical Engineering Department, Ataturk University, Turkey, March 2021

ENVIRONMENTAL PROGRESS, SCI Journal, August 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ataturk University, Turkey, December 2019

Technopark, Ticari Firma, Turkey, April 2019

Chemical Engineering Journal, SCI Journal, August 2016

Technopark, Ticari Firma, Turkey, January 2016

Chemical Enginnering Commication , SCI Journal, November 2015

Chemical Enginnering Commication , SCI Journal, January 2015

Metrics

Publication: 43

Citation (WoS): 99

Citation (Scopus): 114

H-Index (WoS): 7

H-Index (Scopus): 7

Congress and Symposium Activities

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY, Attendee, Malaysia, 2019

MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURAL&MEDICAL SCIENCES-V, Attendee, Turkey, 2019

3rd International Energy & Engineering Congress, Attendee, Gaziantep, Turkey, 2018

13. Ulusal Kimya Mühendisliği Kongresi, Attendee, Van, Turkey, 2018
The Sixth International Exergy, Energy and Environment Symposium, Attendee, Rize, Turkey, 2013
9. Ulusal Nanobilim ve Nanoteknoloji Konferans, Attendee, Erzurum, Turkey, 2013
1st International Chemistry and Chemical Engineering Conference, Attendee, Baku, Azerbaijan, 2013
10. Ulusal Kimya Mühendisliği Kongresi, Attendee, Erzurum, Turkey, 2012
10. Ulusal Kimya Mühendisliği Kongresi, Attendee, İstanbul, Turkey, 2012
25. Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2012
12th International Combustion Symposium, Attendee, Kocaeli, Turkey, 2012
12th International Combustion Symposium, Attendee, Kocaeli, Turkey, 2012
2nd International Conference On Air Pollution An Control, Attendee, Antalya, Turkey, 2011
2nd International Conference On Air Pollution An Control, Attendee, Antalya, Turkey, 2011
6. Ulusal Kimya Mühendisliği Kongresi, Attendee, İzmir, Turkey, 2004

Non Academic Experience

Other Public Institution, Bilim Sanayi Ve Teknoloji Bakanlığı