

Asst. Prof. Burcu Didem ÇORBACIOĞLU

Personal Information

Office Phone: [+90 0212 383](tel:+900212383) Extension: 4753

Email: bcorbaci@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/bcorbaci>

Address: YTÜ Davutpaşa Kampüsü Kimya-Metalürji Fakültesi kimya Müh. Bölümü Esenler/İstanbul

Education Information

Doctorate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, Turkey 1994 - 2002

Dissertations

Doctorate, Yakıt pillerinde elektrot performansının matematiksel modellemesi, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, 2002

Post Graduate, Yarı İletken Polimerlerin Elektrokimyasal Yöntemle Eldesi, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 1993

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Kimya Müh. Bölümü, 2018 - Continues

Assistant Professor, Yildiz Technical University, Kimya Müh. Bölümü, 2004 - 2018

Courses

Biyomalzeme Teknolojileri, Under Graduate, 2018 - 2019

Elektrokimyasal Prosesler, Under Graduate, 2019 - 2020

Advising Theses

Çorbacıoğlu B. D. , POLİÜRE KAPLAMALI METAL LEVHALARIN MEKANİK ÖZELLİKLERİNİN İNCELENMESİ VE ZIRH MALZEMESİ OLARAK KULLANIMININ DEĞERLENDİRİLMESİ, Post Graduate, M.Yıldırım(Student), 2019

Çorbacıoğlu B. D. , Türkiye’de Azotlu Gübre Endüstrisinde Tozlaşma ve Kekleşme Sorunu Üzerine Alternatif Çözüm Yöntemleri, Doctorate, A.Ozan(Student), 2018

Çorbacıoğlu B. D. , Polietilen tereftalat (PET) atıklarının demir-çelik sektörü için değerlendirilmesi, Post Graduate, B.Çiçek(Student), 2015

Çorbacıoğlu B. D. , Cam elyaf-kalsit dolgulu polietilen ve geri dönüşüm PET polimer hibrit kompozit geliştirilmesi ve

karakterizasyonu, Post Graduate, S.Karadağ(Student), 2014

Çorbacıoğlu B. D. , Kauçuktan yarı mamül üretim teknolojileri, Post Graduate, B.Boşnak(Student), 2010

Çorbacıoğlu B. D. , Akımsız nikel kaplama banyolarının karakteristiklerinin incelenmesi, Post Graduate, E.Çam(Student), 2009

Çorbacıoğlu B. D. , Nikel kaplama banyolarının karakteristiklerinin incelenmesi, Post Graduate, A.Ozan(Student), 2007

Çorbacıoğlu B. D. , Çinko-nikel alaşım kaplamalarının karakteristiklerinin incelenmesi, Post Graduate, E.Çetinkaya(Student), 2006

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

- I. **Development of a new ammonium nitrate composition: an attempt to prevent misuse of explosives for antisocial activities**
Gezerman A. O. , Çorbacıoğlu B. D.
JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS, vol.43, pp.101-110, 2020 (Journal Indexed in SCI)
- II. **2-Mercaptobenzimidazole, 2-Mercaptobenzothiazole, and Thioglycolic Acid as Additives for Electrolytic Ni Plating**
Gezerman A. O. , Çorbacıoğlu B. D.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, pp.465-475, 2018 (Journal Indexed in SCI)
- III. **Effects of Mechanical Alloying on Sintering Behavior of Tungsten Carbide-Cobalt Hard Metal System**
Gezerman A. O. , Çorbacıoğlu B. D.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, 2017 (Journal Indexed in SCI)
- IV. **Effect of telluric acid addition on thermal behavior of cesium dihydrogen phosphate**
Beyribey B., Günay E., Saygi B., Çorbacıoğlu B., Saraç H.
Main Group Chemistry, vol.15, pp.125-130, 2016 (Journal Indexed in SCI)
- V. **Development of alternative environment friendly nickel and gold plating baths**
GEZERMAN A. O. , ÇORBACIOĞLU B. D.
SURFACE ENGINEERING, vol.31, pp.641-649, 2015 (Journal Indexed in SCI)
- VI. **EFFECTS OF SODIUM SILICATE, CALCIUM CARBONATE AND SILICIC ACID ON AMMONIUM NITRATE DEGRADATION AND ANALYTICAL INVESTIGATIONS OF THE DEGRADATION PROCESS ON AN INDUSTRIAL SCALE**
Gezerman A. O. , Çorbacıoğlu B. D.
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.21, pp.359-367, 2015 (Journal Indexed in SCI)
- VII. **2-Mercaptobenzimidazole, 2-Mercaptobenzothiazole, and Thioglycolic Acid in an Electroless Nickel-Plating Bath**
Gezerman A. O. , Çorbacıoğlu B. D.
JOURNAL OF CHEMISTRY, 2015 (Journal Indexed in SCI)
- VIII. **Use of nickel(II) acetylacetonate and dimethylgold(III) acetylacetonate in gold on nickel plating**
Gezerman A. O. , Çorbacıoğlu B. D.
SURFACE ENGINEERING, vol.30, pp.483-489, 2014 (Journal Indexed in SCI)
- IX. **Effects of Number of Motors on Viscosity and Cooling Rate during Prilling Process**
Gezerman A. O. , ÇORBACIOĞLU B. D.
PENSEE, 2014 (Journal Indexed in SSCI)
- X. **Effects of Calcium Lignosulfonate and Silicic Acid on Ammonium Nitrate Degradation**
Gezerman A. O. , Çorbacıoğlu B. D.
JOURNAL OF CHEMISTRY, 2014 (Journal Indexed in SCI)
- XI. **Iron(II) acetylacetonate containing brightener and sulphur containing carrier in nickel plating**
Gezerman A. O. , Çorbacıoğlu B. D.
SURFACE ENGINEERING, vol.29, pp.516-521, 2013 (Journal Indexed in SCI)
- XII. **Effects of Dipping Solutions on Air-Drying Rates of the Seedless Grapes**

İsmail O., Keyf S., Beyribey B., Corbacioglu B.

FOOD SCIENCE AND TECHNOLOGY RESEARCH, vol.14, pp.547-552, 2008 (Journal Indexed in SCI)

XIII. **The modification of bitumen with synthetic reactive ethylene terpolymer and ethylene terpolymer**

Keyf S., Ismail O., Corbacioglu B. D.

PETROLEUM SCIENCE AND TECHNOLOGY, vol.25, pp.561-568, 2007 (Journal Indexed in SCI)

XIV. **Polymer-modified bitumen using ethylene terpolymers**

Keyf S., Ismail O., Corbacioglu B. D.

PETROLEUM SCIENCE AND TECHNOLOGY, vol.25, pp.915-923, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **The Study of Dehydration and Rehydration Kinetics of Phaseolus Vulgaris**

Yalçın Z. G. , ÇORBACIOĞLU B. D. , Aydoğmuş E., Dağ M.

Journal of Current Researches on Engineering, Science and Technology (JoCREST), vol.4, pp.1-18, 2018 (Other Refereed National Journals)

II. **DETONATION PROPERTIES OF AMMONIUM NITRATE CONTAINING CALCIUM CARBONATE, DOLOMITE, AND FLY ASH**

Gezerman A. O. , Çorbacioğlu B. D.

INTERNATIONAL JOURNAL OF ENERGETIC MATERIALS AND CHEMICAL PROPULSION, vol.16, pp.295-307, 2017 (Journal Indexed in ESCI)

III. **Best available techniques in the fertilizer production industry: A Review**

Gezerman A. O. , ÇORBACIOĞLU B. D.

European Journal of Chemistry, vol.7, 2016 (Refereed Journals of Other Institutions)

IV. **Off-Design Operation and Exergy Analysis of Multi-Stage Compressors**

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Modern Engineering Sciences, vol.2, pp.39-50, 2013 (Refereed Journals of Other Institutions)

V. **KATI-SIVI EKSTRAKSİYON İŞLEMİ İLE JOJOBA YAĞININ ELDESİ VE İŞLEM DEĞİŞKENLERİNİN YAĞ VERİMİ ÜZERİNE ETKİLERİ**

Yalçın Z. G. , Keyf S., Çorbacioğlu B. D. , Beyribey Price D. B.

YTU SİGMA, vol.31, pp.447-455, 2013 (Other Refereed National Journals)

VI. **Effects of Nitrogenous Fertilizer Filling Material Particle Sizes on Fertilizer Particles**

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Modern Chemistry, vol.3, pp.108-113, 2012 (Refereed Journals of Other Institutions)

VII. **Triple Point Behavior of Ammonia under Compression**

Gezerman A. O. , Çorbacioğlu B. D.

Research Journal of Chemical Sciences, vol.2, pp.58-60, 2012 (Other Refereed National Journals)

VIII. **Use of uniform-sized balls to improve the manufacturing of CaCO₃ in ball mills**

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Modern Chemistry, vol.1, pp.116-124, 2012 (Refereed Journals of Other Institutions)

IX. **Influence of expansion valves on gasification in ammonia storage systems**

Gezerman A. O. , Çorbacioğlu B. D.

Research Journal of Chemical Sciences, vol.2, pp.1-7, 2012 (Refereed Journals of Other Institutions)

X. **Caking And Degradation Problem on Nitrogenous Fertiliser and Alternative Solution Processes**

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Chemistry, vol.3, pp.123-133, 2011 (Refereed Journals of Other Institutions)

XI. **A New Approach to Cooling and Prilling during Fertilizer Manufacture**

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Chemistry, vol.3, pp.158-168, 2011 (Refereed Journals of Other Institutions)

XII. **Improvement of Surface Features of Nitrogenous Fertilisers and Influence of Surfactant Composition**

on Fertiliser Surface

Gezerman A. O. , Çorbacioğlu B. D. , Çevik H.

International Journal of Chemistry, vol.3, pp.201-209, 2011 (Refereed Journals of Other Institutions)

XIII. Analysis of the Characteristics of Nickel-Plating Baths

Gezerman A. O. , Çorbacioğlu B. D.

International Journal of Chemistry, vol.2, pp.124-137, 2010 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Effective Solutions to Pollution Mitigation for Public welfare**
Gezerman A. O. , Çorbacioğlu B. D. , Gurjar B. R. (Editor)
IGI GLOBAL, Pennsylvania, 2018
- II. **Air pollution in Asia and its effect on human health:Air pollution in Asia**
Gezerman A. O. , Çorbacioğlu B. D.
in: Effective Solutions to Pollution Mitigation for Public Welfare, Gezerman A.O, Corbacioglu B.D; Gurjar B.R, Editor,
IGI Global, Pennsylvania, pp.19-43, 2018
- III. **Assessment of the chemical precipitation process as a New approach for Industrial Emission Abatement Systems: Assessment of the chemical precipitation process**
Gezerman A. O. , Çorbacioğlu B. D. , Gurjar B. R.
in: Effective Solutions to pollution Mitigation for public welfare, Gezerman A.O, Corbacioglu B.D; Gurjar B.R, Editor,
IGI Global , Pennsylvania, pp.30-43, 2018
- IV. **Effects of Fertilizer Compositions Containing Calcium Lignosulfonate and Silicic Acid as an Alternative to Organic Fertilizers To Prevent Caking and Degradation**
Gezerman A. O. , Çorbacioğlu B. D.
in: Fertilizer Technology II, Biofertilizers, Gezerman A.O, Corbacioglu B.D, Editor, Studium Press Llc, New-York,
pp.424-451, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF MECHANICAL PROPERTIES OF POLYUREA COATED METAL PLATES**
Yıldırım M., Çorbacioğlu B. D.
International Natural Science, Engineering and Material Technologies Conference , İstanbul, Turkey, 9 - 10
September 2019, pp.139
- II. **Poliüre kaplı metal levhaların mekanik özelliklerinin incelenmesi**
Yıldırım M., ÇORBACIOĞLU B. D.
13.Ulusal Kimya Müh. Kongresi (UKMK 2018), Van, Turkey, 03 September 2018, pp.250
- III. **Elektronik Atıklardan Değerli Metallerin Geri Kazanımı**
Baka B., ÇORBACIOĞLU B. D. , BASİT S.
9. Ulusal Atık Yönetimi Kongresi-UKAY 2018, Konya, Turkey, 09 May 2018, pp.1
- IV. **Bitkisel yağların fiziksel ve kimyasal özelliklerinin iyileştirilerek madeni yağ sektöründe kullanımı**
YALÇIN Z. G. , KEYF S., ÇORBACIOĞLU B. D.
2. INTERNATIONAL LUBE OILS SYPOSIUM AND EXHIBITION, Ankara, Turkey, 14 - 16 November 2013, pp.1-10
- V. **Bitkisel Yağların Fiziksel-Kimyasal Özelliklerinin İyileştirilerek Madeni Yağ Sektöründe Kullanımı**
KEYF S., ALTIN Z. G. , ÇORBACIOĞLU B. D.
II. Uluslararası Madeni Yağ Sempozyumu ve Sergisi, 01 November 2013
- VI. **Kesikli leaching işlemi ile jojoba yağının eldesi ve işlem değişkenlerinin yağ verimi üzerindeki etkileri**
YALÇIN Z. G. , KEYF S., ÇORBACIOĞLU B. D. , BEYRİBEY PRICE D. B.
1. INTERNATIONAL CHEMISTRY NAD CHEMICAL ENG. CONF., Baku, Azerbaijan, 17 - 21 April 2013, pp.143

- VII. **Hurda elektronik atıklardan altın ve gümüşün geri kazanılması sözlü tam metin**
ÇORBACIOĞLU B. D. , YALÇIN Z. G. , BEYRİBEY PRICE D. B. , KEYF S.
1. INTERNATIONAL CHEMISTRY AND CHEMICAL ENG. CONF., Baku, Azerbaijan, 17 - 21 April 2013, pp.308-319
- VIII. **Jojoba Yağının Katı-Sıvı Ekstraksiyon Yöntemi ile Eldesi ve İşlem Parametrelerinin Yağ Verimi Üzerine Etkisi**
KEYF S., ALTIN Z. G. , ÇORBACIOĞLU B. D. , BEYRİBEY B.
1th International Chemistry and Chemical Engineering Conference, 01 April 2013
- IX. **Hurda Elektronik Atıklardan Altın ve Gümüşün Geri Kazanılması**
KEYF S., ÇORBACIOĞLU B. D. , ALTIN Z. G. , BEYRİBEY B.
1th International Chemistry and Chemical Engineering Conference, 01 April 2013

Supported Projects

ÇORBACIOĞLU B. D. , Yıldırım M., Project Supported by Higher Education Institutions, Poliüre Kaplı Metal Levhaların Mekanik Özelliklerinin İncelenmesi Ve Zırh Malzemesi Olarak Kullanımının Değerlendirilmesi, 2018 - 2019

ÇORBACIOĞLU B. D. , Project Supported by Higher Education Institutions, Polietilen Tereftalat (PET) Atıklarının Demir-Çelik Sektörü İçin Değerlendirilmesi, 2012 - 2015

ÇORBACIOĞLU B. D. , Project Supported by Higher Education Institutions, Beyaz altın, takı kaplamalarında kullanılan rodyum ve türevlerinin kazanımı, rafinasyonu ve geri dönüşümü, 2004 - 2007

Scientific Refereeing

Development Agency, İSTKA, Turkey, April 2015
Development Agency, İSTKA, Turkey, April 2014

Invited Congress and Symposium Activities

International Sustainable Thermal Energy Management Conference, Attendee, Newcastle Upon Tyne, United Kingdom, 2015
1st. International Chemistry and Chemical Engineering Conference, Attendee, Azerbaijan, 2013

Citations

Total Citations (WOS):42
h-index (WOS):4