

Asst. Prof. Fatma Burcu ALP

Personal Information

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Address: Muh. Fak. Kimya mühendisliği bölümü

Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Turkey 1999 - 2012

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Chemical Engineering, Turkey 1994 - 1998

Undergraduate, Ege University, Faculty Of Engineering, Kimya Mühendisliği Bölümü, Turkey 1988 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Modelling of crystallization kinetics and investigation of affecting parameters on desired product properties in PCL composites with inorganic and organic additives, Ege University, Fen Bilimleri Enstitüsü, Chemical Engineering, 2012

Postgraduate, The Preparation, characterization and the application of inorganic membranes, Ege University, Fen Bilimleri Enstitüsü, Chemical Engineering, 1998

Research Areas

Chemical Engineering and Technology, Biotechnology, Tissue Engineering, Chemical Technologies, Polymer Technology, Membrane Technology, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Suleyman Demirel University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2018 - Continues
Lecturer, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Chemistry Engineering (English), 2001 - 2018

Courses

Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2017 - 2018

Kütle ve Enerji Denklikleri, Undergraduate, 2017 - 2018

Membran Ayırma İşlemleri, Postgraduate, 2017 - 2018

Material and Energy Balances in Engineering, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Various Combinations of Flame Retardants for Poly (vinyl chloride)**
Cetin A., ERZENGİN S. G. , ALP F. B.
OPEN CHEMISTRY, vol.17, no.1, pp.980-987, 2019 (Journal Indexed in SCI)
- II. **Crystallization Kinetics and Affecting Parameters on Polycaprolactone Composites With Inorganic and Organic Additives**
Cesur S., Alp B., Kucukgoksel Y., Kahraman T., Balkose D.
JOURNAL OF VINYL & ADDITIVE TECHNOLOGY, vol.21, no.3, pp.174-182, 2015 (Journal Indexed in SCI)
- III. **Isothermal crystallization kinetics and mechanical properties of polycaprolactone composites with zinc oxide, oleic acid, and glycerol monooleate**
Alp B., Cesur S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.2, pp.1259-1275, 2013 (Journal Indexed in SCI)
- IV. **Dehydration, Water Vapor Adsorption and Desorption Behavior of Zn[B3O3(OH)(5)] center dot H2O and Zn[B3O4(OH)(3)]**
Alp B., Gonen M., Savrik S. A. , Balkose D., Ulku S.
DRYING TECHNOLOGY, vol.30, no.14, pp.1610-1620, 2012 (Journal Indexed in SCI)
- V. **Water vapour adsorption on DNA**
Balkose D., Alp B., Ulku S.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.94, no.3, pp.695-698, 2008 (Journal Indexed in SCI)
- VI. **Moisture sorption and thermal characteristics of polyaramide blend fabrics**
Genc G., Alp B., Balkose D., Ulku S., CİRELİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.1, pp.29-38, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **NANO ZINC BORATE AS A LUBRICANT ADDITIVE**
Atakul Savrik S., ALP F. B. , üstün f., Balköse D.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.45-52, 2017 (Refereed Journals of Other Institutions)
- II. **Preparation and Characterization of Copper Borates as Lubricant Additives**
ALP F. B. , SEVDİYE A. S. , DEVRİM B.
Journal of Materials Science and Engineering B, vol.4, no.4, pp.94-108, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Nano Zinc Borates as Additives**
ATAKUL SAVRIK S., ALP F. B. , ÜSTÜN f., BALKÖSE D.
in: Applied Physical Chemistry with Multidisciplinary Approaches, A. K. Haghi, Devrim Balköse, Sabu Thomas, Editor, CRC PRESS TaylorFrancis Group, pp.304-321, 2018
- II. **NICKEL STEARATE HYDROSOLS FOR HYDROPHOBIC CELLULOSE**
SOFUOĞLU C. İ. , ÜSTÜN F., ALP F. B. , BALKÖSE D.
in: Applied Physical Chemistry with Multidisciplinary Approaches, A. K. Haghi, Devrim Balköse, Sabu Thomas, Editor, CRC Press TaylorFrancis Group, pp.282-300, 2018
- III. **Chapter 5 Dynamic Heat of Adsorption of Water Vapor on Zeolitic Tuff and Zeolite 4A by Flow**

Microcalorimetry

ALP F. B. , DEVRİM B., ÜLKÜ S.

in: In Modern Advances in Organic and Inorganic Chemistry, D, Balkose and G. Zaikov, Editor, Nova Science Publishers., New-York, pp.159-172, 2005

Refereed Congress / Symposium Publications in Proceedings

- I. **Yüksek Konsantre Borik Asit Gideriminde Aljinat Bazlı Kompozit Adsorbent Kullanımı**
Aslan K., Çoban O., ALP F. B.
Uluslararası Bor Sempozyumu-Boron2019, 17 - 19 April 2019
- II. **Influences of Various Combinations of Flame Retardants on the Properties of Poly(vinyl chloride)**
Çetin A., ERZENGİN S. G. , ALP F. B.
II. International Joint Science Congress of Materials and Polymers (ISCMP-Albania 2018), Durres, Albania, 9 - 12 November 2018, pp.62
- III. **4ZnO.B2O3.H2O Yapısındaki Çinko Boratin Üretimi ve Karakterizasyonu**
KÜÇÜKTEKİN F., SATMAZ İ., KANPULAT D., ALP F. B. , GÖNEN M.
13. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Turkey, 3 - 06 September 2018
- IV. **The Utilization of Ceramic Tubular Microfilter Membranes in the Ceramic Industries Wastewater Management**
ÖZCAN S., KIZILER B., ALP F. B. , ÇİFTÇİOĞLU M.
3rd International Porous and Powder Materials Symposium and Exhibition (PPM 2017), KUŞADASI, AYDIN, Turkey, 12 - 15 September 2017, pp.4
- V. **Nano Zinc Borate as Lubricant Additive**
ATAKUL SAVRIK S., ÜSTÜN F., BALKÖSE D., ALP F. B.
The International Porous and Powder Materials Symposium and Exhibition, PPM 2017, İzmir, Turkey, 12 - 15 September 2017, pp.280-284
- VI. **İnorganik ve Organik Katkılı Polikaprolakton PCL Kompozitlerin İzotermal Koşullarda Kristalizasyon Süreci**
ALP F. B. , CESUR S., KAHRAMAN t., BALKÖSE d.
III. Uluslararası Polimerik Kompozitler Sempozyum-Sergi ve Çalıştayı, İzmir, Turkey, 9 - 11 November 2012
- VII. **Crystallization Control of Polycaprolactone PCL with Inorganic And Organic Additives**
ALP F. B. , CESUR S., BALKÖSE D.
18th International Symposium on Industrial Crystallization, Zürich, Switzerland, 13 - 16 September 2011
- VIII. **Characterization Of Biodegradable And Oxodegradable Polypropylene Composite Films**
ALP F. B. , BURHANOĞLU T., CESUR S., DEVRİM B.
Uluslararası Katılımlı Polimerik Kompozitler Sempozyumu, İzmir, Turkey, 26 - 28 November 2010
- IX. **Polikaprolakton Temelli Biyobozunur Ambalaj Üretimi**
ALP F. B. , CESUR S., DEMİR Ş., S M.
9. Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 22 - 25 June 2010
- X. **Preparation and Characterization of Zinc Oxide Polycaprolactone Biocomposites**
ALP F. B. , CESUR S., DEVRİM b.
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya, Turkey, 7 - 12 May 2010
- XI. **Zinc Borate Lubricant Production by Inverse Emulsion Technique**
Savrik Atakul S., GÖNEN M., ALP F. B. , Devrim B.
Fourth International Boron Symposium, Eskişehir, Turkey, 15 - 17 October 2009
- XII. **Supercritical Ethanol Drying of Zinc Borates**
GÖNEN M., Devrim B., ALP F. B. , Atakul Savrik S., Semra Ü.
Fourth International Boron Symposium, Eskişehir, Turkey, 15 - 17 October 2009
- XIII. **Investigation of Dehydration Behavior of Zinc Borates by in Situ DRIFT FTIR Spectroscopy**

- GÖNEN M., Atakul Savrık S., ALP F. B. , Ayaz a., Balköse D.
1. Somer Symposium, Ankara, Turkey, 20 October 2008
- XIV. **İnorganik ve Organik Katkılı PCL Kompozitlerin Isıl ve Enzimatik Bozunma Mekanizmaları ve Kinetiği**
ALP F. B. , CESUR S., BALKÖSE D.
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 September 2012
- XV. **Nano Size Zinc Borate Production from Borax Decahydrate and Zinc Nitrate**
Sevdiye S. A. , GÖNEN M., ALP F. B. , Balköse D.
5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Cetrato, Italy, 24 - 29 May 2008
- XVI. **Çinko Borat Parçacıklarının Süperkritik Karbondioksit ile Kurutulması**
GÖNEN M., ALP F. B. , Savrık Atakul S., Balköse D., Semra Ü.
, II. Ulusal Bor Çalıştayı, Ankara, Turkey, 17 - 18 April 2008
- XVII. **Boraks Dekahidrat ve Çinko Nitrattan Mikron altı Tane Boyutlu Çinko Borat Üretimi**
Savrık S., GÖNEN M., ALP F. B. , balköse D., Ülkü S.
II. Ulusal Bor Çalıştayı, Ankara, Turkey, 17 - 18 April 2008
- XVIII. **Çinko Borat Türlerinden $2ZnO \cdot 3B_2O_3 \cdot 7H_2O$ ve $2ZnO \cdot 3B_2O_3 \cdot 3H_2O$ nun Dehidratasyon Davranışları**
ALP F. B. , GÖNEN M., SAVRIK ATAKUL S., BALKÖSE d., ÜLKÜ S.
II. Ulusal Bor Çalıştayı, Turkey, 17 - 18 April 2008
- XIX. **DNA Su Buharı Etkileşimi**
ÜLKÜ S., BALKÖSE D., ALP F. B. , ALLAHVERDİEV A.
7. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 5 - 08 September 2006
- XX. **Mikrokalorimetre ile Zeolit üzerine Su Buharı Adsorpsiyon Isısının Ölçülmesi**
ALP F. B. , DEVRİM B., ÜLKÜ S.
6. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 7 - 10 September 2004

Supported Projects

ALP F. B. , TUBITAK Project, Seramik Tübüler MF-UF-NF Membran Modüllerinin Mikro/Nanotasarımı ve Endüstriyel Atıksu Yönetiminde Kullanımlarının Araştırılması, 2014 - 2016

ALP F. B. , TUBITAK Project, İnorganik ve Organik Katkılı PCL Kompozitlerde Kristalizasyon Sürecinin Modellenmesi ve İstenen Ürün Özelliklerine Etki Eden Parametrelerin İncelenmesi, 2010 - 2012

ALP F. B. , TUBITAK Project, Nano Boyutta Çinko Borat Üretimi, 2006 - 2008

Citations

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