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Education Information

Doctorate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 1992 - 1999

Post Graduate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 1988 - 1991

Under Graduate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 1983 - 1987

Research Areas

Agricultural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji , Kimya Mühendisliği, 2018 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji , Kimya Mühendisliği, 2007 - 2018

Professional Experience

Advising Theses

İsmail O., Biyopolimerik Misellerin Sentezi ve Karakterizasyonu, Modifiye Edilmiş Anti-kanser İlaçların Kontrollü Salımında Kullanılması, Doctorate, Ö.GÖKÇE(Student), 2018

İSMAİL O., GÖZENEKLİ POLİMER JELLERİN GÖZENEKLİ YAPISINA ÇEŞİTLİ AJANLARIN ETKİSİ, Post Graduate, Ö.GÖKÇE(Student), 2012

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

- **Microwave drying of fish, chicken and beef samples**

KIPÇAK A. S. , İSMAİL O.

JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, 2020 (Journal Indexed in SCI)

- **Preparation and optimization of biodegradable self-assembled PCL-PEG-PCL nano-sized micelles for drug delivery systems**

Kocabay O. G. , İSMAİL O.

INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 2020 (Journal Indexed in SCI)

- **MODELLING OF AAm-co-ALGINATE HYDROGELS SWELLING KINETICS**

İSMAİL O.

REVUE ROUMAINE DE CHIMIE, vol.64, pp.577-583, 2019 (Journal Indexed in SCI)

- **Acrylamide based hydrogels in swelling and uptake of methylene blue from aqueous solutions**

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MAIN GROUP CHEMISTRY, vol.18, pp.281-290, 2019 (Journal Indexed in SCI)

- **SYNTHESIS AND CHARACTERIZATION OF POLY(epsilon-CAPROLACTONE)-POLY(ETHYLENE GLYCOL)-POLY(epsilon-CAPROLACTONE) COPOLYMERS: INVESTIGATION OF THE EFFECT OF BLOCKS ON MICELLIZATION**

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- **Infrared and Microwave Drying of Rainbow Trout: Drying Kinetics and Modelling**

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- **Comparison of the microwave drying kinetics of culture and natural asparagus**

Kipcak A. S. , İsmail O.

ACTA SCIENTIARUM-TECHNOLOGY, vol.40, 2018 (Journal Indexed in SCI)

- **DRYING KINETICS OF HOT-AIR DRIED BEEF MEAT: APPLICATION OF MATHEMATICAL MODELS, ENERGY CONSUMPTION, AND COLOR CHARACTERISTICS**

İSMAİL O., Kocabay O. G.

HEAT TRANSFER RESEARCH, vol.49, pp.1353-1366, 2018 (Journal Indexed in SCI)

- **Investigation of rehydration kinetics of open-sun dried okra samples**

KOCABAY O. G. , İSMAİL O.

HEAT AND MASS TRANSFER, vol.53, pp.2155-2163, 2017 (Journal Indexed in SCI)

- **Open sun drying of green bean: influence of pretreatments on drying kinetics, colour and rehydration capacity**

İSMAİL O., Figen A., Piskin S.

HEAT AND MASS TRANSFER, vol.53, pp.1277-1288, 2017 (Journal Indexed in SCI)

- **AN EXPERIMENTAL AND MODELING INVESTIGATION ON DRYING OF CHICKEN MEAT IN CONVECTIVE DRYER**

İSMAİL O.

STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, vol.62, pp.459-469, 2017 (Journal Indexed in SCI)

- **Thin-layer drying kinetics of nectarine slices using IR, MW and hybrid methods**

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BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, pp.92-100, 2017 (Journal Indexed in SCI)

- **Investigation of the effect of temperature and pretreatment on the rehydration capacities of dried nectarine slices** *Investigação do efeito da temperatura e do pré-tratamento na capacidade de reidratação das fatias secas da nectarina*

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- **INVESTIGATION OF THE EFFECT OF A HYBRID DRYING METHOD ON THE COLOR QUALITY OF NECTARINE SLICES AND ENERGY CONSUMPTION**

DEMIREL F. M. , İSMAİL O.

STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, vol.62, pp.237-248, 2017 (Journal Indexed in SCI)

- **Investigation of rehydration kinetics of open-sun dried carrot slices**

İSMAİL O.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, pp.355-361, 2017 (Journal Indexed in SCI)

- **Evaluation of the drying methods and conditions with respect to drying kinetics, colour quality and specific energy consumption of thin layer pumpkins**

İSMAİL O., KOCABAY O. G.

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- **Effects of open-air sun drying and pre-treatment on drying characteristics of purslane (*Portulaca oleracea* L.)**

İsmail O., Figen A., Piskin S.

Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.51, pp.807-813, 2015 (Journal Indexed in SCI Expanded)

- **INVESTIGATION OF DEHYDRATION AND REHYDRATION KINETICS OF PEAS SUBJECTED TO OPEN-AIR SUN DRYING**
İSMAİL O., Beyribey B., DOYMAZ İ.
LATIN AMERICAN APPLIED RESEARCH, vol.44, pp.209-216, 2014 (Journal Indexed in SCI)
- **Peleg and Weibull models for water absorption of copolymer gels crosslinked on polyethylene glycol dimethacrylates**
Ismail O.
RESEARCH ON CHEMICAL INTERMEDIATES, vol.40, pp.1327-1335, 2014 (Journal Indexed in SCI)
- **Modeling and Investigation of the Swelling Kinetics of Acrylamide-Sodium Acrylate Hydrogel**
KIPÇAK A. S. , İSMAİL O., DOYMAZ İ., Piskin S.
JOURNAL OF CHEMISTRY, 2014 (Journal Indexed in SCI)
- **MODELING OF REHYDRATION KINETICS OF GREEN BELL PEPPERS**
DOYMAZ İ., İSMAİL O.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.37, pp.907-913, 2013 (Journal Indexed in SCI)
- **OPEN-AIR SUN DRYING IN THRACE REGION OF GREECE: THE EXPERIMENTAL INVESTIGATION OF THYME AND MINT LEAVES**
İSMAİL O., Beyribey B.
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- **Modeling of absorption kinetics of poly(acrylamide) hydrogels crosslinked by EGDMA and PEGDMAs**
İSMAİL O., KIPÇAK A. S. , Piskin S.
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- **Experimental characterization and modelling of drying of pear slices**
DOYMAZ İ., İSMAİL O.
FOOD SCIENCE AND BIOTECHNOLOGY, vol.21, pp.1377-1381, 2012 (Journal Indexed in SCI)
- **Devolatilization non-isothermal kinetic analysis of agricultural stalks and application of TG-FT/IR analysis**
Figen A., İsmail O., Piskin S.
Journal of Thermal Analysis and Calorimetry, vol.107, pp.1177-1189, 2012 (Journal Indexed in SCI Expanded)
- **Swelling Characterization of the Superabsorbent Copolymer in the Petroleum-Based Solvent-Water Mixtures**
İSMAİL O., Beyribey B.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.49, pp.432-438, 2012 (Journal Indexed in SCI)
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DOYMAZ İ., İSMAİL O.
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- **Removal of Water in Liquid Fuel with a Super Absorbent Copolymer**
İSMAİL O., Beyribey B., TURHAN K.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.33, pp.1669-1677, 2011 (Journal Indexed in SCI)
- **Drying and Rehydration Behaviors of Green Bell Peppers**
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- **Effects of Dipping Solutions on Air-Drying Rates of the Seedless Grapes**
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- **The modification of bitumen with synthetic reactive ethylene terpolymer and ethylene terpolymer**
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PETROLEUM SCIENCE AND TECHNOLOGY, vol.25, pp.561-568, 2007 (Journal Indexed in SCI)
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- **Drying of Okra by Different Drying Methods: Comparison of Drying time, Product Color Quality, Energy Consumption and Rehydration**

İsmail O., Kıpçak A. S. , Doymaz İ.

10.30958/ajs.6-3-1, vol.6, pp.155-168, 2019 (International Refereed University Journal)

- **THERMOGRAVIMETRIK ANALYSIS OF WASTE BIOMASS PELLETT AND COMBUSTION KINETICS**

KANTÜRK FİGEN A., İSMAİL O., PİŞKİN S.

Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.18, no.3, pp.350-361, 2016 (National Refereed University Journal)

- **EFFECT OF DRYING METHODS ON DRYING CHARACTERISTIC, ENERGY CONSUMPTION AND COLOR OF NECTARINE**

İSMAİL O., Beyribey B., DOYMAZ İ.

JOURNAL OF THERMAL ENGINEERING, vol.2, pp.801-806, 2016 (Journal Indexed in ESCI)

- **OPEN-AIR SUN DRYING: THE EFFECT OF PRETREATMENT ON DRYING KINETIC OF CHERRY TOMATO**

İSMAİL O., AKYOL E.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.34, pp.141-151, 2016 (International Refereed University Journal)

- **OPEN-AIR SUN DRYING: THE EFFECT OF PRETREATMENT ON DRYING KINETIC OF CHERRY TOMATO**

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- **TERPOLİMER BİTÜM MODİFİYESİ TEST SONUÇLARININ İNCELENMESİ**

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KİMYA VE SANAYİ, pp.48-51, 2005 (Other Refereed National Journals)

- **Terpolimerle Bitüm Modifiyesi Test Sonuçlarının İncelenmesi**

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- **Sıutana Üzümünün Kurutulmasında Potasyum Karbonat Çözeltilerinin Etkilerinin İncelenmesi**

İSMAİL O.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.1, pp.108-113, 2005 (Other Refereed National Journals)

- **Akrilik Asit Esaslı Süper Absorban Kopolimerlerin Sentezi ve Bahçe Bitkilerine Uygulanması**

İSMAİL O., Kuyulu A.

YTÜ Dergisi, vol.3, pp.33-40, 2003 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- **Effect of pretreatment on drying kinetics of beef meat**

İSMAİL O., ÖZLEM G. K.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, 17-19 DECEMBER 2019, JOINT CONFERENCE OF YTU AND ASHRAE, İstanbul, Turkey, 17 - 19 December 2019, pp.407-415

- **Synthesis, Absorption and Adsorption of Sodium Acrylate and Alginate Based Acrylamide Hydrogels**

İSMAİL O., ÖZLEM G. K.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, 17-19 DECEMBER 2019, JOINT CONFERENCE OF YTU AND ASHRAE, İstanbul, Turkey, 17 - 19 December 2019, pp.489-497

• **Thin Layer Drying of Chicken Meat: Modeling and Experimental Results**

İsmail O., Gökçe Kocabay Ö.

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, pp.520-526

• **SYNTHESIS, ABSORPTION AND ADSORPTION STUDIES OF POLYACRYLAMIDE/SODIUM ALGINATE HYDROGEL**

Gökçe Kocabay Ö., İSMAİL O.

Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 09 September 2018, pp.22

• **Drying of Okra by Different Drying Methods: Comparison of Drying time, Product Color Quality, Energy Consumption and Rehydration**

KIPÇAK A. S. , İSMAİL O., DOYMAZ İ.

6th Annual International Conference on Chemistry, Athens, Greece, 23 July 2018, pp.31

• **Effect of Pretreatment and Temperature on Drying of Rainbow Trout**

İSMAİL O., Gökçe Kocabay Ö.

8th International Congress on Fisheries and Aquatic Research, Nevşehir, Turkey, 12 July 2018, pp.48

• **Mathematical Modelling of Okra Samples by Different Drying Methods**

İsmail O., Doymaz İ., Kıpçak A. S.

3rd Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 19 - 21 December 2017, pp.308-315

• **Effect of Drying Temperature on the Bioactive Compounds and Antioxidant Capacity of the Asparagus Officinalis**

KARASU S., DOYMAZ İ., İSMAİL O.

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• **Drying Characteristics of Asparagus Roots**

DOYMAZ İ., İSMAİL O., KARASU S.

INTERNATIONAL SYMPOSIUM ON MEDICINAL, AROMATIC AND DYE PLANTS, 5 - 07 October 2017

• **Preparation and characterization of poly(ϵ -caprolactone)–poly(ethylene glycol) – poly(ϵ -caprolactone) triblock copolymers**

Gökçe Kocabay Ö., İSMAİL O.

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• **Poly(ϵ -caprolactone)–poly(ethylene glycol)–poly(ϵ -caprolactone) (PCL–PEG–PCL) micelles for anti-cancer drug delivery in vitro'**

Gökçe Kocabay Ö., İSMAİL O., AKDESTE Z.

8th International Advanced Technologies Symposium (IATS'17)., Elazığ, Turkey, 19 October 2017, pp.5-10

• **The Effect of the Absorbent Polymers on Removal of Water in Liquid Fuel**

İSMAİL O., BEYRİBEY PRICE D. B. , DOYMAZ İ.

5th International Ege Energy Symposium and Exhibition (IEESE-5), Denizli, Turkey, 27 June 2010

• **Dolgu Kolonda MEA ile Karbondioksitin absorpsiyonunda Kolon Boyunca Sıcaklık Değişimi**

KEYF S., İSMAİL O.

XVII. Ulusal Kimya Kongresi, İstanbul Üniversitesi, İSTANBUL, İstanbul, Turkey, 8 - 11 September 2003, pp.11

• **CO₂ DEA Sisteminde Absorpsiyon Kolonu Yüksekliği için Geliştirilmiş Model Denkleminin Kullanılması**

KEYF S., İSMAİL O.

XVII. Ulusal Kimya Kongresi, İstanbul Üniversitesi, İSTANBUL, İstanbul, Turkey, 8 - 11 September 2003, pp.20

• **Çapraz Bağlı PMMA Taneciklerinin Gözenekliliğine Karışık Çözücülerinin Etkisi**

Küçük İ., İSMAİL O., Kuyulu A.

Üçüncü Ulusal Kimya Mühendisliği Kongresi, 1-4 Eylül 1998, Atatürk Üniversitesi, Erzurum

• **Endüstride Yanma Kaynaklı Hava Kirliliği Üzerine Bazı Gözlemler**

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Üçüncü Yanma Sempozyumu, 19-21 Temmuz 1993, Bursa

• **Akrilik Asit Esaslı Süper Absorban Polimerlerin Absorpsiyon Özelliğine Akrilik Asitin Nötralizasyonunda Kullanılan Sodyum ve Potasyum Hidroksit Etkisinin İncelenmesi,**

İSMAİL O., Küçük İ., Kuyulu A.

V. Ulusal Kimya Mühendisliği Kongresi, 2-5 Eylül, Ankara Üniversitesi, ANKARA

- **Antioksidantlar Kullanarak Rosinesterin Erime Viskozitesinin Zamanla Değişiminin İncelenmesi**

İSMAİL O., Çorbacıoğlu B.

6. Ulusal Kimya Mühendisliği Kongresi, 7-10 Eylül, İZMİR

- **Üzümün Sıcak Hava ile Kurutulması**

İSMAİL O., Kılıç E.

IX. Kimya ve Kimya Mühendisliği Sempozyumu, Eylül, Karadeniz Teknik Üniversitesi, Trabzon

- **İnvers Süspansiyon Polimerizasyonu Tekniği ile Elde Edilen Akrilik Asit Esaslı Süper Absorban Polimerlerin Bitki ve Toprak Üzerindeki Etkilerinin İncelenmesi**

İSMAİL O., Küçük İ., Kuyulu A.

XIII. Ulusal Kimya Kongresi, 31 Ağustos-4 Eylül, Ondokuz Mayıs Üniversitesi, SAMSUN

- **The Effect of PEG on the Water Absorption Capacity and Rate of Water Absorption of Super Absorbent Polymers Based on Acrylic Acid**

İSMAİL O., Küçük İ., Kuyulu A.

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- **İnvers Süspansiyon Polimerizasyonu Tekniği ile Elde Edilen Akrilik Asit Esaslı Süper Absorban Polimerlerin Sentezi ve Karakterizasyonu**

İSMAİL O., Küçük İ., Kuyulu A.

XIII. Ulusal Kimya Kongresi, 31 Ağustos-4 Eylül, Ondokuz Mayıs Üniversitesi, SAMSUN

- **Rosinesterdeki Renk Dönüşümünün Antioksidantlar Kullanarak Azaltılması**

İSMAİL O., Saraç A.

XVII. Ulusal Kimya Kongresi, 8-11 Eylül, İstanbul Üniversitesi, İSTANBUL

Supported Projects

İSMAİL O., KOCABAY Ö. G. , Project Supported by Higher Education Institutions, Biyopolimerik Misellerin Sentezi ve Karakterizasyonu, Modifiye Edilmiş Anti-kanser İlaçların Kontrollü Salımında Kullanılması, 2014 - 2018

İSMAİL O., Project Supported by Higher Education Institutions, Sera topraklarında kullanılmak üzere yeni süper absorban kopolimerlerin üretimi, 2004 - 2007

Scientific Refereeing

MAIN GROUP CHEMISTRY, SCI Journal, July 2017

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Turkish Journal of Fisheries and Aquatic Sciences, SCI Journal, November 2016

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Citations

Total Citations (WOS):233

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Awards

İSMAİL O., Yayın Teşekkür Belgesi, Yıldız Teknik Üniversitesi, February 2016

İSMAİL O., Yayın Teşekkür Belgesi, Yıldız Teknik Üniversitesi, February 2015

İSMAİL O., Food and Bioproducts Processing Top Cited Papers for 2011 and 2012, ELSEVIER, October 2014

İSMAİL O., Yayın Teşekkür Belgesi, Yıldız Teknik Üniversitesi, February 2014

İSMAİL O., Yayın Teşekkür Belgesi, Yıldız Teknik Üniversitesi, February 2013

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