

## Prof. Hasan SADIKOĞLU

### Personal Information

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**Web:** <https://avesis.yildiz.edu.tr/hsadik>

**Address:** YILDIZ TEKNİK ÜNİVERSİTESİ, KİMYA-METALÜRJİ FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ DAVUTPAŞA KAMPÜSÜ 34210 ESENLER, İSTANBUL

### International Researcher IDs

ScholarID: UNjaTQoAAAAJ

ORCID: 0000-0002-0234-8428

Publons / Web Of Science ResearcherID: AAZ-4975-2020

ScopusID: 6603014474

Yoksis Researcher ID: 52113

### Biography

Prof. Dr. Hasan Sadıkoğlu was born in Trabzon-Of at 1968. He received his bachelor (B.Sc.) degree from Yıldız Technical University in 1990 with honors (ranked in first place among 82 graduates). He completed his master's and doctoral degrees at the University of Missouri-Rolla with a scholarship from YOK (Higher Education Council of Turkey) in 1995 and 1998, respectively. After completing his graduate degrees in the United States, he worked as an assistant professor, associate professor, professor and dean of school of engineering at Gebze Technical University for 14 years. Since 2016, he has been working as a professor at Yıldız technical University. He participated as a principal and associate investigator in many research projects supported by different institutions such as TUBITAK, DPT, UNIVERSITIES, MINISTRY OF INDUSTRY. His research interest focused on mathematical modelling, optimization, applied mathematics, energy from bio-mass, and energy policies and he published many papers and book chapters and participated many congresses and symposiums, also supervised many bachelor, masters and doctoral thesis in these fields.

### Education Information

Doctorate, University of Missouri-Rolla, School Of Engineering, Chemical Engineering, United States Of America 1996 - 1998

Postgraduate, University of Missouri-Rolla, School Of Engineering, Chemical Engineering, United States Of America 1994 - 1995

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey 1986 - 1990

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, The dynamic modelling and optimal control of the primary and secondary drying stages of bulk solution freeze drying in trays, University Of Missouri-Rolla, School Of Engineering, Chemical Engineering, 1998

## Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Basic Operations and Thermodynamics, Thermodynamics, Fluid Mechanics, Momentum Transport, Transport Events, Differential Equations, Optimization, Numerical Analysis, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2015 - Continues

Associate Professor, Gebze Technical University, Faculty Of Engineering, Kimya Mühendisliği, 2009 - 2014

Assistant Professor, Gebze Technical University, Faculty Of Engineering, Kimya Mühendisliği, 2006 - 2009

Assistant Professor, Gebze Technical University, Faculty Of Engineering, Enerji Sistemleri Mühendisliği, 2000 - 2006

Research Assistant PhD, University of Missouri-Rolla, School Of Engineering, Chemical Engineering, 1999 - 2000

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2016 - 2022

Gebze Teknik Üniversitesi, Mühendislik Fakültesi, 2015 - 2016

Gebze Teknik Üniversitesi, 2014 - 2015

Gebze Teknik Üniversitesi, Mühendislik Fakültesi, 2010 - 2015

Gebze Teknik Üniversitesi, Mühendislik Fakültesi, Doçent Temsilcisi, 2009 - 2015

Gebze Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Müh, 2002 - 2015

Gebze Teknik Üniversitesi, Kimya Mühendisliği, 2008 - 2014

Gebze Teknik Üniversitesi, Kazak-Türk Yeninelebilir Enerji Sistemleri, 2004 - 2014

Gebze Teknik Üniversitesi, 2001 - 2011

## Courses

CHEMICAL ENGINEERING THERMODYNAMICS, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Kimya Mühendisliği Akışkanlar Mekaniği, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

KİMYA MÜHENDİSLİĞİNDE UYGULAMALI İLERİ MATEMATİK II, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

KİMYA MÜHENDİSLİĞİNDE UYGULAMALI İLERİ MATEMATİK I, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

NUMERICAL ANALYSIS, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

OPTIMIZATION IN CHEMICAL ENGINEERING, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

CHEMICAL ENGINEERING THERMODYNAMICS II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

GIDA ENDÜSTRİSİNDE MATEMATİKSEL UYGULAMALAR VE MODELLEME, Doctorate, 2017 - 2018

CALCULUS II, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

TRANSPORT PHENOMENA, Doctorate, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001  
LİNEER CEBİR ve DİFFERANSİYEL DENKLEMLER, Undergraduate, 2003 - 2004

## Advising Theses

- Sadikoğlu H., Yücel Ö., REDUCING FOSSIL FUEL CONSUMPTION IN CEMENT INDUSTRY: MODELING OF GAS EMISSIONS AND INNOVATIVE SOLAR CALCINER APPROACH, Doctorate, H.HAVVA(Student), 2024
- Sadikoğlu H., ACCURATE PH DETERMINATION BY IMAGE PROCESSING USING CONVENTIONAL PH- TEST STRIP, Postgraduate, F.EID(Student), 2024
- Sadikoğlu H., ESTIMATION OF BIOCRUDE OIL YIELD BY MACHINE LEARNING, Postgraduate, Ş.GÜNGÖR(Student), 2024
- Sadikoğlu H., Yücel Ö., CFD ANALYSIS OF A MISSILE FOR UNMANNED AERIAL VEHICLE, Postgraduate, E.ÇAĞLA(Student), 2024
- Sadikoğlu H., Yılmaz H., Production and Development of Nanoparticle, Pharmaceutical and Animal Extracellular Matrix Functioned Neural Tissue Connectors by 3D Printing, Postgraduate, N.KAÇAR(Student), 2023
- Sadikoğlu H., ESTIMATION OF THE CRITICAL PROPERTIES OF COMPOUNDS USING MACHINE LEARNING ALGORITHMS, Postgraduate, R.ALHALOUSH(Student), 2023
- Sadikoğlu H., Yücel Ö., Development of a Correlation for Estimation of Biomass Higher Heating Value with Statistical and Machine Learning Based Approaches, Postgraduate, H.YAKA(Student), 2022
- Sadikoğlu H., Oruç M. E., Fabrication and Characterization of Graphene Oxide Coated Eggshell Membrane, Postgraduate, M.MUSLU(Student), 2022
- Sadikoğlu H., Yücel Ö., USING TIRE WASTES AS A SYNTHESIS GASES, Postgraduate, E.YILDIRIM(Student), 2022
- Sadikoğlu H., Effects of Different Drying Methods on Quality Parameters of Salep (*Serapias vomeracea*), Postgraduate, B.BİLGİÇ(Student), 2022
- Sadikoğlu H., Oruç M. E., Theoretical and Experimental Study of Platelet Generation from Megakaryocyte in a Microfluidic Platform, Doctorate, G.ATAK(Student), 2022
- Sadikoğlu H., Yılmaz H., Yumuşak Doku için Hyalüronik Ait -Metil Selüloz Hidrojel Biyomürekkep ve Doku İskelelerinin Geliştirilmesi ve Karakterizasyonu, Postgraduate, P.TOKAT(Student), 2022
- Sadikoğlu H., Melikoğlu M., Energy Production from Various Biomass Wastes via Co-Firing and Photovoltaic-Biogas Hybrid Systems, Doctorate, Y.KIRIM(Student), 2022
- Sadikoğlu H., Oruç M. E., Fabrication of Polydimethylsiloxane Microstructures for Hydrophobic Surfaces, Postgraduate, M.AKRAA(Student), 2022
- Sadikoğlu H., Melikoğlu M., Post Vision 2023: Scenario Development and Systems Design for Turkey Energy Sector till 2033, Postgraduate, M.AKIN(Student), 2021
- Sadikoğlu H., Preparation and Characterization of Grape-Based Edible Film and Its Application to Edible Coating, Doctorate, M.YILDIRIM(Student), 2021
- Sadikoğlu H., Oruç M. E., Employment of a Hydrophobic Membrane for Rapid Removal of Gases in the Planar Microfluidic Electrolyzer, Postgraduate, N.MEŞE(Student), 2021
- Sadikoğlu H., Response surface methodology for evaluation of the effects of screw speed, feed moisture and xanthan gum level on functional and physical properties of corn half products, Doctorate, Ö.AKTÜRK(Student), 2020
- Sadikoğlu H., QUATERNIZED AMMONIUM FUNCTIONALIZED POLYLACTIC ACID FILMS : STRUCTURE-ANTIMICROBIAL ACTIVITY RELATIONSHIP AND MECHANICAL/BARRIER PROPERTIES, Doctorate, F.AYNALI(Student), 2020
- Sadikoğlu H., Püskürtmeli Dondurarak Kurutma Methodunun Matematiksel Modellemesi , Postgraduate, D.UĞURLU(Student), 2019
- Sadikoğlu H., Gasification And Mathematical Modelling of Solid Fuels in a Downdraft Gasifier, Doctorate, E.SİDDİK(Student), 2019
- Sadikoğlu H., Özdemir O. K., Proton Geçirimli Membran Tipi Yakıt Hücrelerinde Gaz Difüzyon Tabakasının Modifikasyonu ve Modellenmesi, Postgraduate, Ş.KİL(Student), 2019
- Sadikoğlu H., Şeker M., Freeze-Drying of Turkey Breast Meat: Mathematical Modeling and Estimation of Transport Parameters, Doctorate, Ö.CUMHUR(Student), 2016
- SADIKOĞLU H., Dondurarak Kurutma Metoduyla Çözünebilen Çay Üretme İşleminin Modellenmesi ve Taşınım

Parametrelerinin Belirlenmesi, Postgraduate, E.SIDDIK(Student), 2014  
Sadıkođlu H., Ergenekon P., Çimento Sektöründe Teknoloji İhtiyaç Deđerlendirmesi ve Sera Gazı Potansiyelinin Belirlenmesi, Postgraduate, K.RENDE(Student), 2013  
Sadıkođlu H., Çakır T., Metabolom Verilerinin Hesaplamalı Analizi ile Metabolik Ağyapı Çıkarımı, Postgraduate, M.ÖKSÜZ(Student), 2011  
Sadıkođlu H., Çakır T., Metabolik Akı Analizi Tekniklerini Kullanarak Hücrenin Biyolojik Amacının İncelenmesi, Postgraduate, F.TARLAK(Student), 2011  
SADIKOĐLU H., Meyvelerin Dondurarak Kurutulması, Postgraduate, N.ÖZENİR(Student), 2009  
Sadıkođlu H., Ata A., Polimer elektrolit yakıt hücreleri için nano boyutlu elektro-katalizör sentez ve karakterizasyonu, Postgraduate, Y.OĐUR(Student), 2009  
SADIKOĐLU H., Dondurarak kurutma yöntemi ile çözünebilir çay üretimi, Postgraduate, Ö.ÖZ(Student), 2009  
SADIKOĐLU H., Pozisyona bađlı difüzyon katsayısı içeren karışıt akımlı sistemlerde difüzyon işleminin modellenmesi, Postgraduate, Y.KOCA(Student), 2008  
SADIKOĐLU H., Zeytin kara suyundan atıoksidantların ayrıştırılması, Postgraduate, Ö.KAYHAN(Student), 2007  
SADIKOĐLU H., Kesikli ve sürekli sistemde geliştirilmiş nişastanın reolojik özelliklerinin Karşılaştırılması, Postgraduate, M.KARA(Student), 2007  
SADIKOĐLU H., Atık uzaklaştırma sistemlerinde enerji geri kazanımı, Postgraduate, Ç.BENGÜL(Student), 2007  
SADIKOĐLU H., Sulu Ranyant Sistemler, Postgraduate, İ.A.(Student), 2007  
SADIKOĐLU H., Yarı Mamül Politetrafloroetilenin Saf ve Alaşımli Olarak Üretiminde Basınç Etkisinin Belirlenmesi, Postgraduate, A.GÜL(Student), 2007  
SADIKOĐLU H., Karşııt Akımlı Sistemlerde Difüzyon İşleminin Matematiksel Modellenmesi, Postgraduate, D.ŞEN(Student), 2005  
SADIKOĐLU H., Bir Sanayi Bölgesi İçin Kojenarasyonla Elektrik, Buhar ve Sıcak Su Üretiminin Termodinamiksel Analizi, Postgraduate, S.GÜL(Student), 2005  
SADIKOĐLU H., Gaz Türbinli Bileşik Isı-Güç Üretim Sisteminin Termodinamik Çözümlemesi, Postgraduate, Ç.TEKELİ(Student), 2003  
SADIKOĐLU H., Güneş Enerjisi ile Kurutma, Postgraduate, İ.DÜZER(Student), 2003  
SADIKOĐLU H., Isı Transferi Denklemlerinin Çeşitli Sayısal Yöntemlerle Çözülmesi, Postgraduate, R.Gürkan(Student), 2002

## **Jury Memberships**

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Gebze Teknik Üniversitesi, December, 2024  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, University Malaysia Pahang, November, 2024  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, September, 2024  
Doctorate, Doctorate, İstanbul Teknik Üniversitesi, September, 2024  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gebze Teknik Üniversitesi, August, 2024  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, July, 2024  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2024  
Post Graduate, Post Graduate, Yeditepe Üniversitesi, June, 2024  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, April, 2024  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, April, 2024  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, April, 2024  
Doctorate, Doctorate, Gebze Teknik Üniversitesi, February, 2024  
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship,

Pamukkale Üniversitesi, January, 2024  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2024  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2023  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2023  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Boğaziçi Üniversitesi, August, 2023  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2023  
Associate Professor Exam, Associate Professor Exam, Ataturk University, June, 2023  
Associate Professor Exam, Associate Professor Exam, Gebze Technical University, June, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, June, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, June, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, January, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, January, 2023  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Teknik Üniversitesi, January, 2023  
Associate Professor Exam, Associate Professor Exam, Yıldız Technical University, December, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, November, 2022  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, İstanbul Okan Üniversitesi, October, 2022  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Marmara Üniversitesi, October, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yalova Üniversitesi, September, 2022  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2022  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2022  
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, June, 2022  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2022  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, May, 2022  
Post Graduate, Post Graduate, Yeditepe Üniversitesi, April, 2022  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sivas Bilim Ve Teknoloji Üniversitesi, December, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, October, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, İstanbul Teknik Üniversitesi, September, 2021  
Doctoral Examination, Doctoral Examination, Yeditepe Üniversitesi, July, 2021  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2021  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2021  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, May, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, January, 2021  
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, September, 2020  
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, September, 2020  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, August, 2020  
Competition, TÜBİTAK LİSELER ARASI PROJE YARIŞMASI, Yıldız Teknik Üniversitesi, February, 2020  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Yeditepe Üniversitesi, January, 2020  
Award, TÜBA-GEDİP ÖDÜLLERİ, TURKISH ACADEMY OF SCIENCE, October, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, October,

2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, SINAV JÜRİSİ, GEBZE TEKNİK ÜNİVERSİTESİ, May, 2019

Associate Professor Exam, SINAV JÜRİSİ, YALOVA ÜNİVERSİTESİ, April, 2019

Associate Professor Exam, SINAV JÜRİSİ, İNÖNÜ ÜNİVERSİTESİ, April, 2019

Appointment to Academic Staff-Assistant Professorship, PROFESÖRLÜK KADROSUNA ATAMA, FIRAT ÜNİVERSİTESİ, March, 2019

Doctorate, TEZ SAVUNMA (DOKTORA), GEBZE TEKNİK ÜNİVERSİTESİ, January, 2019

Appointment to Academic Staff-Assistant Professorship, Dr. Öğretim Üyesi Atama, GEBZE TEKNİK ÜNİVERSİTESİ, January, 2019

Appointment to Academic Staff-Assistant Professorship, Profesör Atama Jüresi, YEDİTEPE ÜNİVERSİTESİ, August, 2018

Doctorate, Tez Savunma Jürisi, YEDİTEPE ÜNİVERSİTESİ, May, 2018

Appointment to Academic Staff-Assistant Professorship, Yrd. Doç Atama , GEBZE TEKNİK ÜNİVERSİTESİ, March, 2018

Doctorate, Tez Savunma Jürisi, GEBZE TEKNİK ÜNİVERSİTESİ, February, 2018

Doctorate, Tez Savunma Jürisi, GEBZE TEKNİK ÜNİVERSİTESİ, January, 2018

Doctorate, Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, January, 2018

Appointment to Academic Staff-Assistant Professorship, Yrd. Doç Atama , ONDOKUZ MAYIS ÜNİVERSİTESİ, December, 2017

Doctorate, Tez Savunma Jürisi, YEDİTEPE ÜNİVERSİTESİ, May, 2017

Associate Professor Exam, Doçentlik Sınav Jürisi, YÖK, October, 2016

Award, TÜBİTAK TEZ YARIŞMASI, BİLİM VE SANAYİ BAKANLIĞI, October, 2016

Associate Professor Exam, Doçentlik Sınav Jürisi, YÖK, October, 2016

Doctorate, Tez Savunma Jürisi, İSTANBUL ÜNİVERSİTESİ, June, 2016

Associate Professor Exam, Doçentlik Sınavı, ORTA DOĞU TEKNİK ÜNİVERSİTESİ, May, 2016

Appointment to Academic Staff-Assistant Professorship, Profesör Atama Jüresi, AVRASYA ÜNİVERSİTESİ, April, 2015

Award, İNOVASYON ÖDÜLÜ, İSTANBUL SANAYİ ODASI, September, 2013

Award, İNOVASYON ÖDÜLÜ, İSTANBUL SANAYİ ODASI, September, 2011

Award, İNOVASYON ÖDÜLÜ, İSTANBUL SANAYİ ODASI, September, 2009

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Techno-Economic and Hybrid Energy System Analyses of Hazelnut Shell Gasification Based on Geographical Information System**  
Kırım Y., Yıldız E., Sadikoğlu H., Melikoğlu M.  
COMPUTERS AND CHEMICAL ENGINEERING, vol.194, no.1, pp.2-14, 2025 (SCI-Expanded)
- II. **Higher heating value estimation of wastes and fuels from ultimate and proximate analysis by using artificial neural networks**  
İnsel M. A., Yuçel O., Sadikoglu H.  
Waste Management, vol.185, pp.33-42, 2024 (SCI-Expanded)
- III. **Optimizing waste-to-energy conversion: Unveiling the potential of unsupervised clustering through the new HOM classification system**  
İnsel M. A., Yuçel O., Sadikoğlu H.  
Sustainable Energy Technologies and Assessments, vol.65, 2024 (SCI-Expanded)
- IV. **Preparation and characterization of poly(lactic acid)-based contact-active antimicrobial surfaces**  
Aynali F., DOĞANCI E., Balci H., Cetin M., Ozkoc G., SADIKOĞLU H.  
Journal of Coatings Technology and Research, vol.20, no.4, pp.1459-1475, 2023 (SCI-Expanded)
- V. **Effects of Xanthan Gum Addition and Extrusion Parameters on Properties of Starch-Based Fried Corn Extrudates**

Gümüşay Ö. A., Sadıkoğlu H., Şeker M.

STARCH/STAERKE, vol.1, no.1, pp.1-16, 2023 (SCI-Expanded)

- VI. **A comparison of machine learning algorithms for estimation of higher heating values of biomass and fossil fuels from ultimate analysis**  
Yaka H., İnsel M. A., Yucel O., Sadıkoğlu H.  
Fuel, vol.320, 2022 (SCI-Expanded)
- VII. **Computational modeling and experimental verification of cathode catalyst layer on PEM fuel cells**  
Kil Ş., Özdemir O. K., İnsel M. A., Sadıkoğlu H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.62, pp.26665-26672, 2022 (SCI-Expanded)
- VIII. **Effect of grape derivatives and cross-linked maize starch coatings on the storage life of strawberry fruit**  
Yildirim-Yalcin M., Seker M., Sadikoglu H.  
PROGRESS IN ORGANIC COATINGS, vol.167, 2022 (SCI-Expanded)
- IX. **Technical and economic analysis of biogas and solar photovoltaic (PV) hybrid renewable energy system for dairy cattle barns**  
Kırım Y., Sadıkoğlu H., Melikoğlu M.  
RENEWABLE ENERGY, vol.188, pp.873-889, 2022 (SCI-Expanded)
- X. **OPTIMIZATION OF MEGAKARYOCYTE TRAPPING FOR PLATELET FORMATION IN MICROCHANNELS**  
Baydar Atak G., Insel M. A., Oruc M. E., Sadıkoğlu H.  
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.28, no.1, pp.19-28, 2022 (SCI-Expanded)
- XI. **Optimization of mechanical and antioxidant properties of edible film based on grape juice and cross-linked maize starch and evaluation of its effects on the storage quality of fresh-cut pineapple**  
Yildirim-Yalcin M., Sadıkoğlu H., Seker M.  
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.15, pp.4669-4678, 2021 (SCI-Expanded)
- XII. **Development of a Hybrid Renewable Energy System with Co-Firing Option**  
Kırım Y., Sadıkoğlu H., Melikoglu M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)
- XIII. **Characterization of edible film based on grape juice and cross-linked maize starch and its effects on the storage quality of chicken breast fillets**  
Yıldırım-Yalçın M., Sadıkoğlu H., Şeker M.  
LWT, vol.142, 2021 (SCI-Expanded)
- XIV. **Development and characterization of edible films based on modified corn starch and grape juice**  
Yildirim-Yalcin M., ŞEKER M., SADIKOĞLU H.  
FOOD CHEMISTRY, vol.292, pp.6-13, 2019 (SCI-Expanded)
- XV. **Comparison of the different artificial neural networks in prediction of biomass gasification products**  
YÜCEL Ö., AYDIN E., SADIKOĞLU H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.11, pp.5992-6003, 2019 (SCI-Expanded)
- XVI. **Response surface methodology for evaluation of the effects of screw speed, feed moisture and xanthan gum level on functional and physical properties of corn half products**  
GÜMÜŞAY Ö., ŞEKER M., SADIKOĞLU H.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.111, pp.622-631, 2019 (SCI-Expanded)
- XVII. **Experimental study on hydrogen-rich syngas production via gasification of pine cone particles and wood pellets in a fixed bed downdraft gasifier**  
AYDIN E., YÜCEL Ö., SADIKOĞLU H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.32, pp.17389-17396, 2019 (SCI-Expanded)
- XVIII. **Synthesis and characterization of antimicrobial polylactide via ring-opening polymerization and click chemistry methods**  
Aynali F., DOĞANCI E., Doruk T., SADIKOĞLU H.  
POLYMER INTERNATIONAL, vol.68, no.3, pp.385-393, 2019 (SCI-Expanded)
- XIX. **Numerical and experimental investigation of hydrogen-rich syngas production via biomass gasification**

- Aydin E. S., Yucel O., Sadikoglu H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.2, pp.1105-1115, 2018 (SCI-Expanded)
- XX. **Assessment of CO<sub>2</sub> reduction techniques of cement production in Turkey**  
Rende K., Ercan O., Hilmioğlu B., Ergenekon P., SADIKOĞLU H.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.16, no.1, pp.18-38, 2018 (SCI-Expanded)
- XXI. **Development of a semi-empirical equilibrium model for downdraft gasification systems**  
Aydin E. S., Yucel O., Sadikoglu H.  
ENERGY, vol.130, pp.86-98, 2017 (SCI-Expanded)
- XXII. **Modelling and simulation of a moving interface problem: freeze drying of black tea extract**  
Aydin E. S., Yucel O., Sadikoglu H.  
HEAT AND MASS TRANSFER, vol.53, no.6, pp.2143-2154, 2017 (SCI-Expanded)
- XXIII. **Freeze drying of turkey breast meat: Mathematical modeling and estimation of transport parameters**  
Cumhur O., Seker M., Sadikoglu H.  
DRYING TECHNOLOGY, vol.34, no.5, pp.584-594, 2016 (SCI-Expanded)
- XXIV. **FREEZE-DRYING KINETICS AND DIFFUSION MODELING OF SAFFRON (CROCUS SATIVUS L.)**  
ACAR B., Sadikoglu H., DOYMAZ İ.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.39, no.2, pp.142-149, 2015 (SCI-Expanded)
- XXV. **The role of flexibility and optimality in the prediction of intracellular fluxes of microbial central carbon metabolism**  
Tarlak F., Sadikoglu H., Cakir T.  
MOLECULAR BIOSYSTEMS, vol.10, no.9, pp.2459-2465, 2014 (SCI-Expanded)
- XXVI. **Sparsity as Cellular Objective to Infer Directed Metabolic Networks from Steady-State Metabolome Data: A Theoretical Analysis**  
Oksuz M., Sadikoglu H., Cakir T.  
PLOS ONE, vol.8, no.12, 2013 (SCI-Expanded)
- XXVII. **Network Inference via Computational Analysis of Metabolome Data**  
Oksuz M., Sadikoglu H., Cakir T.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXVIII. **Role of Flexibility and Minimal Enzyme Production in the Prediction of Intracellular Fluxes of Microorganisms**  
Tarlak F., Sadikoglu H., Cakir T.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXIX. **Freeze Drying of Saffron (Crocus sativus L.)**  
ACAR B., Sadikoglu H., ÖZKAYMAK M.  
DRYING TECHNOLOGY, vol.29, no.14, pp.1622-1627, 2011 (SCI-Expanded)
- XXX. **Solution of counter diffusion problem with position dependent diffusion coefficient by using variational methods**  
Yuksekk K., Koca Y., Sadikoglu H.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.232, no.2, pp.285-294, 2009 (SCI-Expanded)
- XXXI. **Freeze-drying of pharmaceutical products: Research and development needs**  
Sadikoglu H., OZDEMIR M., SEKER M.  
DRYING TECHNOLOGY, vol.24, no.7, pp.849-861, 2006 (SCI-Expanded)
- XXXII. **A mathematical model for potassium sorbate diffusion through whey protein films**  
Sadikoglu H., SEN D., OZDEMIR M.  
DRYING TECHNOLOGY, vol.24, no.1, pp.21-29, 2006 (SCI-Expanded)
- XXXIII. **Optimal control of the secondary drying stage of freeze drying of solutions in vials using variational calculus**  
Sadikoglu H.  
DRYING TECHNOLOGY, vol.23, pp.33-57, 2005 (SCI-Expanded)
- XXXIV. **Properties of cross-linked starch produced in a single screw extruder with and without a mixing element**



- SEKER M., Sadikoglu H., HANNA M.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.27, no.1, pp.47-63, 2004 (SCI-Expanded)
- XXXV. **Phosphorus binding to starch during extrusion in both single- and twin-screw extruders with and without a mixing element**  
SEKER M., Sadikoglu H., OZDEMIR M., HANNA M.  
JOURNAL OF FOOD ENGINEERING, vol.59, no.4, pp.355-360, 2003 (SCI-Expanded)
- XXXVI. **Cross-linking of starch with reactive extrusion and expansion of extrudates**  
SEKER M., Sadikoglu H., OZDEMIR M., HANNA M.  
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.6, no.3, pp.473-480, 2003 (SCI-Expanded)
- XXXVII. **Optimal control of the primary drying stage of freeze drying of solutions in vials using variational calculus**  
Sadikoglu H., Ozdemir M., Seker M.  
DRYING TECHNOLOGY, vol.21, no.7, pp.1307-1331, 2003 (SCI-Expanded)
- XXXVIII. **Use of UNIFAC in the prediction of water activity values of aqueous polyol solutions**  
OZDEMIR M., Sadikoglu H.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.23, no.2, pp.109-120, 1999 (SCI-Expanded)
- XXXIX. **Surface treatment of food packaging polymers by plasmas**  
OZDEMIR M., YURTERI C., Sadikoglu H.  
FOOD TECHNOLOGY, vol.53, no.4, pp.54-58, 1999 (SCI-Expanded)
- XL. **Estimation of the effect of product shrinkage on the drying times, heat input and condenser load of the primary and secondary drying stages of the lyophilization process in vials**  
Sadikoglu H., LIAPIS A., CROSSER O., BRUTTINI R.  
DRYING TECHNOLOGY, vol.17, no.10, pp.2013-2035, 1999 (SCI-Expanded)
- XLI. **Physical polymer surface modification methods and applications in food packaging polymers**  
OZDEMIR M., YURTERI C., Sadikoglu H.  
CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, vol.39, no.5, pp.457-477, 1999 (SCI-Expanded)
- XLII. **Frontal chromatography of proteins: The effect on column performance of the restricted diffusion of molecules in porous chromatographic adsorbents**  
LIAPIS A., Sadikoglu H., CROSSER O.  
JOURNAL OF CHROMATOGRAPHY A, vol.828, pp.345-356, 1998 (SCI-Expanded)
- XLIII. **Characterization of rheological properties of systems containing sugar substitutes and carrageenan**  
OZDEMIR M., Sadikoglu H.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.33, no.5, pp.439-444, 1998 (SCI-Expanded)
- XLIV. **A new and emerging technology: Laser-induced surface modification of polymers**  
OZDEMIR M., Sadikoglu H.  
TRENDS IN FOOD SCIENCE & TECHNOLOGY, vol.9, no.4, pp.159-167, 1998 (SCI-Expanded)
- XLV. **Optimal control of the primary and secondary drying stages of bulk solution freeze drying in trays**  
Sadikoglu H., Liapis A., Crosser O.  
DRYING TECHNOLOGY, vol.16, pp.399-431, 1998 (SCI-Expanded)
- XLVI. **Dynamic pressure rise in the drying chamber as a remote sensing method for monitoring the temperature of the product during the primary drying stage of freeze drying**  
LIAPIS A., Sadikoglu H.  
DRYING TECHNOLOGY, vol.16, no.6, pp.1153-1171, 1998 (SCI-Expanded)
- XLVII. **Mathematical modelling of the primary and secondary drying stages of bulk solution freeze-drying in trays: Parameter estimation and model discrimination by comparison of theoretical results with experimental data**  
Sadikoglu H., LIAPIS A.  
DRYING TECHNOLOGY, vol.15, pp.791-810, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Assessment and determination of 2030 onshore wind and solar PV energy targets of Türkiye considering several investment and cost scenarios**  
İnsel M. A., Sadıkođlu H., Melikođlu M.  
RESULTS IN ENGINEERING, vol.16, 2022 (ESCI)
- II. **Dondurarak Kurutma Teknolojisi ve Evreleri**  
SADIKOĐLU H., OZDEMİR M.  
GIDA, vol.28, no.6, pp.643-649, 2003 (Peer-Reviewed Journal)
- III. **Dondurarak Kurutma Teknolojisi**  
SADIKOĐLU H., OZDEMİR M.  
TERMOKLİMA, vol.103, pp.53-61, 2001 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Quality Control in Chocolate Coating Processes by Image Processing: Determination of Almond Mass and Homogeneity of Almond Spread**  
Özçelik S., İnsel M. A., Atici Ö. A., Celebi E., Baydar-Atak G., Sadıkođlu H.  
in: Advances in Intelligent Manufacturing and Service System Informatics, Zekâi Şen, Özer Uygun, Caner Erden, Editor, Springer Nature, Singapore, pp.69-80, 2023
- II. **Hybrid Energy System Design Combining Solar Energy with Lignite Coal and Forest Residue**  
Kırım Y., Sadıkođlu H., Melikođlu M.  
in: Renewable Energy Based Solutions, Tanay Sıtkı Uyar and Nader Cavani, Editor, Springer, London/Berlin , Basel, pp.316-332, 2022
- III. **Numerical Investigation of Fixed Bed Downdraft Woody Biomass Gasification**  
AYDIN E. S., YÜCEL Ö., SADIKOĐLU H.  
in: Exergetic, Energetic and Environmental Dimensions, İbrahim Dincer, Can Ozgur Colphan, ve Ozgur Kizilkan, Editor, Elsevier, Hollanda, pp.566-580, 2018
- IV. **SPRAY FREEZE DRYING**  
SADIKOĐLU H.  
in: SPRAY DRYING TECCNOLOGY, WOO M.W., DAUD WRW, MUJUMDAR A.S., Editor, Natioanal University Of Singapore, Singapur, pp.157-182, 2010
- V. **Yüksek Performanslı Bilişim, 1. Ulusal YPBS 2002**  
SEVİLGEN E., SADIKOĐLU H.  
Gebze Yüksek Teknoloji Enstitüsü, Kocaeli, 2002

## Refereed Congress / Symposium Publications in Proceedings

- I. **Classification of Wastes by Utilizing Image Processing and Convolutional Neural Networks**  
İnsel M. A., Baş N., Yücel Ö., Sadıkođlu H.  
7th Eurasia Waste Management Symposium, İstanbul, Turkey, 21 - 23 October 2024, pp.1-8
- II. **Reaction Mechanism Modelling for Cement Calciner**  
Cebeci H., Sadıkođlu H., Yücel Ö.  
7th International Conference on Engineering Sciences (ICES 2024), Ankara, Turkey, 9 - 11 February 2024, pp.1-7
- III. **Wind Power Forecasting by using Advanced Artificial Neural Networks**  
İnsel M. A., Yücel Ö., Sadıkođlu H.  
7th International Conference on Engineering Sciences, Ankara, Turkey, 9 - 10 February 2024
- IV. **Estimation of Biocrude Oil Yield by Machine Learning**  
Güngör Ş., İnsel M. A., Sadıkođlu H.

7th International Conference on Engineering Sciences, Ankara, Turkey, 9 - 10 February 2024

- V. **AERODYNAMIC DESIGN AND COMPUTATIONAL FLUID DYNAMICS (CFD) ANALYSIS OF A SUPERSONIC ROCKET AND ROCKET ENGINE COMBUSTION CHAMBER**  
Kivrak E. Ç., Yücel Ö., Sadıkoğlu H.  
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-IX, Ankara, Turkey, 27 - 29 December 2023, pp.22-29
- VI. **Determination of pH Value Using Conventional pH Strips by Image Processing**  
Eid F., İnsel M. A., Sadıkoğlu H.  
6th International Eurasian Conference on Biological and Chemical Sciences , Ankara, Turkey, 11 - 13 October 2023, pp.325
- VII. **Three-Dimensional Printing-Based Fabrication and Enhancement of Nerve Tissue Connectors Augmented with Nanoparticles**  
Kaçar N., BERBER H., YILMAZER H., SADIKOĞLU H.  
Applications of Chemistry in Nanosciences and Biomaterials Engineering, BUCAREST, Romania, 28 - 30 June 2023
- VIII. **Quality Control in Chocolate Coating Processes by Image Processing: Determination of Almond Mass and Homogeneity of Almond Spread**  
Özçelik S., İnsel M. A., Atıcı Ö. A., Celebi E., Baydar Atak G., Sadıkoğlu H.  
12th International Symposium on Intelligent Manufacturing and Service Systems, Sakarya, Turkey, 26 - 28 May 2023, pp.69-80
- IX. **Production and Development of Nervous Tissue Connectors Functioned with Nanoparticle, Pharmaceutical and Animal Derived Extracellular Matrix by 3D Printing**  
Kaçar N., BERBER H., YILMAZER H., SADIKOĞLU H.  
The 16th International Scientific Research Congress, 23 - 24 March 2023
- X. **Assessment of Lydersen Method in Estimation of Critical Properties of Various Alcohols**  
Alhaloush R., İnsel M. A., Sadıkoğlu H.  
5th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 23 - 25 November 2022, pp.458
- XI. **Fabrication Methods of 2D Nanomaterials for Photocatalytic and Electrocatalytic Hydrogen Evolution: A Review**  
Çakar M., İnsel M. A., Sadıkoğlu H.  
1st International Two-Dimensional Nanomaterials Conference, İstanbul, Turkey, 25 - 27 May 2022, pp.38
- XII. **Synthesis Gas Production from Waste Tires**  
YILDIRIM E., YÜCEL Ö., SADIKOĞLU H.  
7th International Engineering And Technology Management Congress, İstanbul, Turkey, 17 - 19 April 2022
- XIII. **Investigation of the impact of different drying methods on the physical properties and quality of Salep**  
Bilgiç B., Baydar Atak G., Sadıkoğlu H.  
4TH INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Ankara, Turkey, 24 - 26 November 2021, pp.1156
- XIV. **Development of tissue scaffolds through 3D bioprinting for burn wound healing**  
Tokat P., METE GÜNAYDIN H., YILMAZER Y., GÜNDÜZ O., YILMAZER H., SADIKOĞLU H.  
5th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Antalya, Turkey, 20 - 23 July 2021
- XV. **Polycarbonate / Graphene Oxide Composite Membrane Production**  
MUSLU M., ORUÇ M. E., ÜSTÜNDAĞ C. B., SADIKOĞLU H.  
20th International International Metallurgy & Materials Congress, İstanbul, Turkey, 16 - 18 June 2021
- XVI. **Effects of different drying methods on the quality of dried Serapias vomeracea. International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020)**  
BİLGİÇ B., ATAK G., SADIKOĞLU H.  
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 - 18 December 2020

- XVII. **Fabrication of a microchip with sub-10 microns for platelet formation from megakaryocyte**  
Baydar Atak G., Omeroglu S., Sadikoğlu H., Oruç M. E.  
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020),  
Gaziantep, Turkey, 7 - 09 October 2020, pp.416
- XVIII. **"Employing of Hydrophobic Membrane for Collecting of Gases in the Planar Electrolyzer,"**  
Meşe N., Sadikoğlu H., Oruç M. E.  
2nd International Congress of Academic Research, Bolu, February 2020., Bolu, Turkey, 4 - 06 February 2020, pp.2-10
- XIX. **THEORETICAL INVESTIGATION OF FREEZE-DRYING**  
Bilgiç B., Baydar Atak G., Sadikoğlu H.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING , İstanbul, Turkey, 17 - 19  
December 2019, pp.1362-1363
- XX. **Cost Analysis of Renewable Energy Technologies**  
İnsel M. A., Sadikoğlu H., Melikoğlu M.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019,  
pp.1426
- XXI. **A GENERAL OVERVIEW: PRODUCTION OF PLATELETS IN A MICROCHANNEL**  
Baydar Atak G., Oruç M. E., Sadikoğlu H.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING , İstanbul, Turkey, 17 - 19  
December 2019, pp.1204
- XXII. **Theoretical Investigation of Significant Parameters Affecting the Platelet Formation in Microchips**  
Baydar Atak G., Insel M. A., Oruç M. E., Sadikoğlu H.  
ICESME, Girne, Cyprus (Kkct), 8 - 10 November 2019, pp.23
- XXIII. **Antimikrobiyal Polilaktik Asit Filmlerin Hazırlanması Ve Termal/Mekanik Özelliklerinin İncelenmesi**  
Aynalı F., Sadikoğlu H.  
31.Ulusal Kimya Kongresi, İstanbul, Turkey, 10 September - 13 October 2019, pp.10-16
- XXIV. **Modification and Modelling of GasDiffusion Layer on PEM Fuel Cells**  
Kil Ş., ÖZDEMİR O. K., SADIKOĞLU H.  
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019
- XXV. **Optimization of Gas Diffusion Layer on PEM Fuel Cells**  
Kil Ş., ÖZDEMİR O. K., SADIKOĞLU H.  
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- XXVI. **Optimization of Gas Diffusion Layer for Pem Fuel Cells**  
Kil Ş., ÖZDEMİR O. K., SADIKOĞLU H.  
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEngTech2018), Ankara,  
Turkey, 22 November 2018, pp.20-25
- XXVII. **Mathematical Modelling of Spray Freeze Drying Method Used for Inhaled Drug Production**  
Uğurlu D., Aydın E., SADIKOĞLU H.  
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEngTech2018), Ankara,  
Turkey, 22 November 2018, pp.1-8
- XXVIII. **FLOW DYNAMICS IN A MICROCHANNEL FOR PLATELET FORMATION FROM MEGAKARYOCYTE**  
Baydar Atak G., Oruc M. E., Sadikoglu H.  
International Conference on Technology, Engineering and Science (IConTES), Antalya, Turkey, 26 October 2018,  
pp.79
- XXIX. **ANALYTICAL SOLUTION TO COUNTERCURRENT DIFFUSION PROBLEM WITH DYNAMIC BOUNDARY CONDITIONS**  
SADIKOĞLU H., AYDIN E. S., YÜCEL Ö.  
ICFAS2017 "International Congress on Fundamental and Applied Sciences", Saraybosna, Bosnia And Herzegovina,  
21 August 2017, pp.12-19
- XXX. **NUMERICAL SOLUTION OF THE FREEZE DRYING OF BLACK TEA EXTRACT WITH ORTHOGONAL COLLOCATION METHOD**

AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.

ICFAS2017 "International Congress on Fundamental and Applied Sciences", Saraybosna, Bosnia And Herzegovina, 21 August 2017, pp.20-26

- XXXI. **A modeling approach to determine the relationship between gasification parameters and hydrogen production**  
AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.  
3rd International Conference on Engineering and Natural Sciences, Budapeşte, Hungary, 03 May 2017, pp.255-262
- XXXII. **Proximate analysis of torrefied and pyrolyzed wood pellets using ft-nir spectroscopy**  
AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.  
3rd International Conference on Engineering and Natural Sciences, Budapeşte, Hungary, 03 May 2017, pp.755-760
- XXXIII. **Numerical Investigation of Fixed Bed Downdraft Woody Biomass Gasification**  
AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.  
8th International Exergy and Environment Symposium (IEEEES-8), Antalya, Turkey, 01 May 2016, pp.867-871
- XXXIV. **Freeze Drying of Instant Tea and Determination of Effective Parameters**  
AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.  
1st International Porous and Powder Materials Symposium and Exhibition, İzmir, Turkey, 03 September 2013, pp.115-121
- XXXV. **Effect of Operational Parameters on Spray Freeze Drying**  
AYDIN E. S., YÜCEL Ö., SADIKOĞLU H.  
44th World Chemistry Congress, İstanbul, Turkey, 11 August 2013, pp.12-16
- XXXVI. **Optimization Based Inference of Metabolic Networks from Metabolome Data**  
Oksuz M., Sadikoglu H., Cakir T.  
11th International Conference on Computational Methods in Systems Biology (CMSB), Klosterneuburg, Austria, 22 - 24 September 2013, vol.8130, pp.266-267
- XXXVII. **Role of Flexibility and Minimal Enzyme Production in the Prediction of Intracellular Fluxes of Microorganisms**  
TARLAK F., SADIKOĞLU H., ÇAKIR T.  
15th European Conference on Biotechnology (ECB-15), İstanbul, Turkey, 23 - 26 September 2012
- XXXVIII. **Network Inference via Computational Analysis of Metabolome Data**  
ÖKSÜZ M., ÇAKIR T., SADIKOĞLU H.  
15th European Conference on Biotechnology (ECB-15), İstanbul, Turkey, 23 - 26 September 2012
- XXXIX. **Predicting Intracellular Flux Distributions of Microorganisms**  
TARLAK F., SADIKOĞLU H., ÇAKIR T.  
2nd Conference on Constraint-based Reconstruction and Analysis (COBRA 2012), Helsingor, Denmark, 07 September 2012, pp.99-102
- XL. **Investigation of Alternative Network Inference Methods for Reverse Engineering of Metabolome Data**  
OKSUZ M., SADIKOĞLU H., ÇAKIR T.  
2nd Conference on Constraint-based Reconstruction and Analysis (COBRA 2012), Helsingor, Denmark, 07 September 2012, pp.75-81
- XLI. **Metabolik Akı Analizi Tekniklerini Kullanarak Hücrenin Biyolojik Amacının İncelenmesi**  
TARLAK F., SADIKOĞLU H., ÇAKIR T.  
10. Ulusal Kimya Mühendisliği Kongresi (UKMK-10), İstanbul, Turkey, 03 September 2012, pp.48-45
- XLII. **Metabolom Verilerinin Hesaplamalı Analizi ile Metabolik Ağyapı Çıkarımı**  
OKSUZ M., SADIKOĞLU H., ÇAKIR T.  
10. Ulusal Kimya Mühendisliği Kongresi (UKMK-10), İstanbul, Turkey, 03 September 2012, pp.18-25
- XLIII. **Optimal Control of the Primary and Secondary Drying Stages of the Freeze Drying of Pharmaceuticals in vials**  
Bruttını R., Liapis A., Sadıkoğlu H.

12th International Drying Symposium (IDS' 00), Nijmegen, Netherlands, 21 - 28 August 2000, pp.946-954

**XLIV. Dynamic Manometric Temperature Measurement**

SADIKOĞLU H., LIAPIS A.

Freeze-Drying of Pharmaceuticals and Biologicals Conference, Brownsville, Vermont, United States Of America, 23 September 1998, pp.288

**XLV. A Novel Remote Sensing Method for Monitoring the Temperature of the Product During the Primary Drying Stage of Freeze Drying**

SADIKOĞLU H., LIAPIS A.

Eleventh International Drying Symposium (IDS' 98), Selanik, Greece, 23 August 1998, pp.258

**XLVI. Dynamic Behavior and Process Control of the Primary and Secondary Drying Stages of Freeze Drying of Pharmaceuticals in Vials**

SHEEHAN P., SADIKOĞLU H., LIAPIS A.

11th International Drying Symposium (IDS' 98), Selanik, Greece, 19 August 1998, pp.1727-1740

**XLVII. A STUDY ON THE DRYING OF SULTANA GRAPES BY DIFFERENT TECHNIQUES AND EFFECTIVE PARAMETERS**

PALA M., SAYGI Y., SADIKOĞLU H.

7TH INTERNATIONAL FLAVOR CONF : FOOD FLAVORS, INGREDIENTS AND COMPOSITION, PYTHAGORION, Greece, 24 - 26 June 1992, vol.32, pp.437-444

## Other Publications

**I. Yıldız Teknik Üniversitesi, Matematik Bölümü Davetli Konuşmacı olarak "Physical Systems to Mathematics"**

SADIKOĞLU H.

Presentation, pp.1-8, 2018

**II. 21. Yüzyılda Gıda Teknolojileri Paneli Dondurarak Kurutmanın İşleminin Gıda Sanayi İçin Önemi**

SADIKOĞLU H.

Presentation, pp.25, 2002

## Supported Projects

YILMAZER H., SADIKOĞLU H., METE GÜNAYDIN H., TOKAT P., YILMAZER Y., SÜMER T., TOKER Ö. S., BERBER H., PRZEKORA A., ŞENGÖR M., et al., Project Supported by Higher Education Institutions, Cilt Hastalık Hastalıkları Tedavisinde Kullanılacak Doku İskelelerinin 3B Biyobasım Yolu ile Sentezlenmesi ve Geliştirilmesi, 2022 - Continues

Sadikoğlu H., İnsel M. A., Yücel Ö., TUBITAK Project, Prediction of Synthesis Gas and Exergy Data as a Result of Gasification of Lignite Coal and Biomass Mixtures by Machine Learning Algorithms, 2023 - 2024

Yılmaz H., Sadikoğlu H., Berber H., Yılmaz Y., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Yanık Tedavisi için Sığla Ağacından Şikimik Asit Ekstraktı ve ZnO Nanopartikül ile Fonksiyonlandırılmış Doku İskelelerinin 3B Yazıcı Teknolojileri ile Geliştirilmesi, 2023 - 2024

Sadikoğlu H., Project Supported by Higher Education Institutions, Nanopartikül İlaç ve Hayvan Kökenli Hücre Dışı Matris ile Fonksiyonlandırılmış Sinir Doku Konnektörlerinin Üç Boyutlu Basım ile Üretimi, 2022 - 2023

SADIKOĞLU H., ATAK G., YILMAZ B., ORUÇ M. E., Project Supported by Higher Education Institutions, Megakaryositlerden Trombosit Oluşumunun Mikroakışkan Kanallarda İncelenmesi, 2018 - 2021

Sadikoğlu H., Atak G., TUBITAK Project, Serapias Vomeraceae'In Dondurarak Kurutulmasıyla Salep Üretimi: Ana Bileşen Olan Glukomannan İçeriği Ve Fonksiyonunun (Nem Tutma) Artırılması Ve Sürecin Matematiksel Modellenmesi, 2019 - 2020

SADIKOĞLU H., Project Supported by Higher Education Institutions, Üzüm Çekirdeği Ekstraktının Polifenol Kompozisyonunun Belirlenmesi, 2013 - 2015

Sadikoğlu H., Çakır T., TUBITAK Project, Hücrenin Metabolik Davranışlarının Ardında Yatan Biyolojik Amacın 'Aşağıdan-

Yukarı' Ve 'Yukarıdan-Aşağı' Sistem Biyolojisi Yaklaşımlarıyla Bütünleşik İncelenmesi: İnsan Ve Mikroorganizma Metabolizmalarına Uygulamaları, 2011 - 2014

SADIKOĞLU H., Project Supported by Other Official Institutions, Zeytin karasuyundan Anti-oksidanların (polifenoller) Ayrıştırılması, 2005 - 2008

SADIKOĞLU H., Project Supported by Other Official Institutions, Küçük Hidroelektrik Santrelleri İçin Türbin Geliştirilmesi, 2005 - 2008

SADIKOĞLU H., Project Supported by Other Official Institutions, Yerli Rüzgar Santral Tasarımı ve İmalatı, 2005 - 2008

SADIKOĞLU H., Project Supported by Other Official Institutions, Peynir Altı Suyundan Elde Edilen Proteinler ile İmal Edilmiş Antimikrobiyal Madde Salan Yenilebilir Film ve Kaplamalar, 2002 - 2005

SADIKOĞLU H., Project Supported by Higher Education Institutions, Petrol Yakıtlı Bir Aracın Hibrid Arac Dönüşümü, 2001 - 2002

SADIKOĞLU H., Project Supported by Higher Education Institutions, Dondurarak Kurutma İşlemi İçin Çok Boyutlu Teorik Modellerin Geliştirilmesi ve Enerji Sarfiyatını Minimuma İndirmek İçin Optimal İşletme Şartlarının Belirlenmesi, 2000 - 2001

SADIKOĞLU H., Other International Funding Programs, Dondurarak Kurutma İşleminin Birinci ve İkinci Kurutma evrelerinde, Ürün Buzlaşmasının Kurutma Zamanına, Isı Tüketimine ve Yoğuşturucu Yüküne Etkisi, 2000 - 1999

SADIKOĞLU H., Other International Funding Programs, Improvement of Processing Conditions and Establishment of Efficient Quality Control Systems for Major Turkish Export Food Commodities, 1991 - 1993

## Patent

Şeker M., Sadıkoğlu H., Az Tuzlu Pastırma Üretim Yöntemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2017 00500 , Standard Registration, 2021

## Activities in Scientific Journals

Editor, 2015 - 2022

## Memberships / Tasks in Scientific Organizations

Hidrojen Teknolojileri Derneği, Member of Science Committee, 2021 - Continues, Turkey

## Scientific Refereeing

RENEWABLE ENERGY, SCI Journal, December 2024

FOOD CHEMISTRY, National Scientific Refreed Journal, December 2024

ENERGY JOURNAL, SCI Journal, November 2024

RENEWABLE ENERGY, SCI Journal, September 2024

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2024

ENERGY CONVERSION AND MANAGEMENT, SCI Journal, July 2024

FOOD CHEMISTRY, SCI Journal, July 2024

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, May 2024

ENERGY JOURNAL, Journal Indexed in SCI-E, April 2024

PROGRESS IN ORGANIC COATINGS, SCI Journal, April 2024

FOOD BIOSCIENCE, SCI Journal, March 2024

INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, March 2024

ENERGY JOURNAL, Journal Indexed in SSCI, March 2024

INNOVATIVE FOOD SCIENCE AND EMERGING TECHNOLOGIES, SCI Journal, March 2024

FOOD BIOTECHNOLOGY, SCI Journal, February 2024  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, SCI Journal, January 2024  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, January 2024  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Yildiz Technical University, Turkey, January 2024  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, December 2023  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, SCI Journal, December 2023  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, Journal Indexed in SCI-E, December 2023  
ENERGY REPORTS, SCI Journal, November 2023  
Energy, SCI Journal, November 2023  
FOOD BIOSCIENCE, SCI Journal, October 2023  
Results in Engineering, Journal Indexed in ESCI, September 2023  
FUEL, SCI Journal, September 2023  
FUEL, SCI Journal, August 2023  
FUEL, SCI Journal, August 2023  
ENERGY STORAGE, SCI Journal, July 2023  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, July 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, June 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, June 2023  
PROGRESS IN ORGANIC COATINGS, SCI Journal, April 2023  
PROGRESS IN ORGANIC COATINGS, SCI Journal, April 2023  
PROGRESS IN ORGANIC COATINGS, SCI Journal, February 2023  
Chemical Engineering Journal Advances, SCI Journal, September 2022  
FUEL, SCI Journal, September 2022  
PROGRESS IN ORGANIC COATINGS, SCI Journal, August 2022  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, August 2022  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, July 2022  
FUEL, SCI Journal, June 2022  
APPLIED THERMAL ENGINEERING, SCI Journal, May 2022  
FUEL, SCI Journal, April 2022  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, April 2022  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, March 2022  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, SANAYÍ, Turkey, December 2021  
DRYING TECHNOLOGY, SCI Journal, November 2021  
FUEL, SCI Journal, October 2021  
APPLIED THERMAL ENGINEERING, SCI Journal, October 2021  
FUEL, SCI Journal, September 2021  
FUEL, SCI Journal, September 2021  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, September 2021  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, July 2021  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, SCI Journal, June 2021  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, SCI Journal, May 2021  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, May 2021  
ENERGY REPORTS, SCI Journal, April 2021  
FUEL, SCI Journal, April 2021  
ENVIRONMENTAL TECHNOLOGY & INNOVATION, SCI Journal, April 2021  
Horizon Europe Project, Horizon Europe Project, Istanbul Technical University, Turkey, September 2020  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, July 2020  
3 BIOTECH, SCI Journal, June 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2020



Project Supported by Higher Education Institutions, BAP Research Project, Ataturk University, Turkey, June 2020  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, May 2020  
NATURAL PRODUCT RESEARCH, SCI Journal, May 2020  
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, SCI Journal, March 2020  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, February 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, February 2020  
TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Yildiz Technical University, Turkey, December 2019  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Yildiz Technical University, Turkey, December 2019  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, November 2019  
International Journal of Research, Innovation and Commercialisation, Other Indexed Journal, October 2019  
ENVIRONMENTAL TECHNOLOGY & INNOVATION, SCI Journal, October 2019  
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, SCI Journal, September 2019  
INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, August 2019  
LWT-FOOD SCIENCE AND TECHNOLOGY, SCI Journal, August 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2019  
AR-GE Merkezi Hakemi, Other Journals, November 2018  
AR-GE Merkezi Hakemi, Other Journals, November 2018  
Komisyon Üyesi, Other Journals, July 2018  
Phytotherapy Research, National Scientific Refreed Journal, March 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, February 2018  
FOOD-SCIENCEAND TECHNOLOGY, SCI Journal, February 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2018  
Ar-Merkezi Hakemliği, Other Journals, January 2018  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, November 2017  
NATURAL PRODUCT RESEARCH, SCI Journal, January 2017  
AR-GE Merkezi Hakemi, Other Journals, April 2014  
Gazi Üniversitesi Dergisi, National Scientific Refreed Journal, April 2014  
Industrial & Engineering Chemistry Research, SCI Journal, April 2013  
ENERGY, SCI Journal, February 2013  
Food and Bioprocess Technologies, SCI Journal, October 2012  
Journal Food Process Engineering, SCI Journal, May 2011  
International Journal of Food Properties, SCI Journal, March 2009  
International Journal of Heat and Mass Transfer, SCI Journal, March 2008  
Sigma (Yıldız Teknik Üniversitesi Dergisi), National Scientific Refreed Journal, May 2006  
Numerical Heat Transfer, SCI Journal, April 2006  
AIChE, SCI Journal, June 2004  
TÜBİTAK-TEYDEP, Other Journals, May 2004  
Journal of Food Engineering, SCI Journal, February 2004  
Drying Technology, SCI Journal, July 2003  
Chemical Engineering Science, SCI Journal, March 2002

## **Tasks In Event Organizations**

Sadikoğlu H., World Energy Strategies Congress and Exhibition (WESCE-2019), Scientific Congress, İstanbul, Turkey, Ağustos 2019

## **Metrics**

Publication: 104  
Citation (WoS): 1216  
Citation (Scopus): 1214  
H-Index (WoS): 19  
H-Index (Scopus): 19

## **Congress and Symposium Activities**

WHEC-2022 "23rd World Hydrogen Energy Conference", Session Moderator, İstanbul, Turkey, 2022  
WESCE-2019, World Energy Strategies Congress and Exhibition, Invited Speaker, İstanbul, Turkey, 2019  
World Energy Strategies Congress and Exhibition (WESCE-2019), Session Moderator, İstanbul, Turkey, 2019  
WESCE-2019, Moderator, İstanbul, Turkey, 2019  
WESCE-2019, Working Group, İstanbul, Turkey, 2019  
ICFAS2017, Attendee, Sarajevo, Bosnia And Herzegovina, 2017  
Örnek Kişilerle Kendini Anla, Geleceğini Planla, Invited Speaker, Trabzon, Turkey, 2016  
IDS 98, Attendee, Thessaloníki, Greece, 1998  
IDS' 98 INTERNATIONAL DRYING SYMPOSIUM, Attendee, Thessaloníki, Greece, 1998

## **Invited Talks**

Mathematical Modelling and Simulation of Physical Systems: An Engineering Approach, Seminar, Gebze Teknik Üniversitesi, Turkey, November 2019  
FROM PHYSICAL SYSTEMS TO MATHEMATICS, Seminar, Yıldız Teknik Üniversitesi, Turkey, October 2017

## **Scholarships**

DOKTORA ARAŞTIRMA BURSUSU, University, 1996 - 1998  
YURT DIŞI YÜKSEK LİSANS VE DOKTORA BURSUSU, YOK, 1993 - 1998

## **Non Academic Experience**

University of Missouri-Rolla  
University of Missouri-Rolla  
TÜBİTAK MARMARA ARAŞTIRMA MERKEZİ