

## 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

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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 DIFFERANSİYEL DENKLEMLER, Undergraduate, 2003 - 2004

## Advising Theses

- 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., Yilmazer 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., 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., Fabrication and Characterization of Graphene Oxide Coated Eggshell Membrane, Postgraduate, M.MUSLU(Student), 2022
- Sadikoğlu H., Yilmazer H., Yumuşak Doku için Hyalüronik Ait -Metil Selüloz Hidrojel Biyomürekkep ve Doku İskelelerinin Geliştirilmesi ve Karakterizasyonu, Postgraduate, P.TOKAT(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., Oruç M. E., Fabrication of Polydimethylsiloxane Microstructures for Hydrophobic Surfaces, Postgraduate, M.AKRAA(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., Melikoğlu M., Post Vision 2023: Scenario Development and Systems Design for Turkey Energy Sector till 2033, Postgraduate, M.Akın(Student), 2021
- Sadikoğlu H., Preparation and Characterization of Grape-Based Edible Film and Its Application to Edible Coating, Doctorate, M.Yıldırım(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 Mebran 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 Çözünabilen Çay Üretme İşleminin Modellenmesi ve Taşınım Parametrelerinin Belirlenmesi, Postgraduate, E.SİDDİK(Student), 2014
- Sadikoğlu H., Ergenekon P., Çimento Sektöründe Teknoloji İhtiyaç Değerlendirmesi ve Sera Gazı Potansiyelinin Belirlenmesi, Postgraduate, K.RENDE(Student), 2013
- Sadikoğlu H., Çakır T., Metabolom Verilerinin Hesaplamalı Analizi ile Metabolik Ağyapı Çıkarımı, Postgraduate,

M.ÖKSÜZ(Student), 2011

Sadikoğlu H., Çakır T., Metabolik Akı Analizi Tekniklerini Kullanarak Hücrenin Biyolojik Amacının İncelenmesi, Postgraduate, F.TARLAK(Student), 2011

SADIKOĞLU H., Meyvelerin Dondurarak Kurutulması, Postgraduate, N.ÖZENİR(Student), 2009

Sadikoğlu H., Ata A., Polimer elektrolit yakıt hücreleri için nano boyutlu elektro-katalizör sentez ve karakterizasyonu, Postgraduate, Y.OĞUR(Student), 2009

SADIKOĞLU H., Dondurarak kurutma yöntemi ile çözünebilir çay üretimi, Postgraduate, Ö.ÖZ(Student), 2009

SADIKOĞLU H., Pozisyona bağlı difüzyon katsayısı içeren karşıt akımlı sistemlerde difüzyon işleminin modellenmesi, Postgraduate, Y.KOCA(Student), 2008

SADIKOĞLU H., Zeytin kara suyundan antioksidantların ayrıştırılması, Postgraduate, Ö.KAYHAN(Student), 2007

SADIKOĞLU H., Kesikli ve sürekli sistemde geliştirilmiş nişastanın reolojik özelliklerinin Karşılaştırılması, Postgraduate, M.KARA(Student), 2007

SADIKOĞLU H., Atık uzaklaştırma sistemlerinde enerji geri kazanımı, Postgraduate, Ç.BENGÜL(Student), 2007

SADIKOĞLU H., Sulu Ranyant Sistemler, Postgraduate, İ.A.(Student), 2007

SADIKOĞLU H., Yarı Mamül Politetrafloroetilenin Saf ve Alaşım Olarak Üretiminde Basınç Etkisinin Belirlenmesi, Postgraduate, A.GÜL(Student), 2007

SADIKOĞLU H., Karşıt Akımlı Sistemlerde Difüzyon İşleminin Matematiksel Modellenmesi, Postgraduate, D.ŞEN(Student), 2005

SADIKOĞLU H., Bir Sanayi Bölgesi İçin Kojenarasyonla Elektrik, Buhar ve Sıcak Su Üretiminin Termodinamik Analizi, Postgraduate, S.GÜL(Student), 2005

SADIKOĞLU H., Gaz Türbinli Bileşik Isı-Güç Üretim Sisteminin Termodinamik Çözümlemesi, Postgraduate, Ç.TEKELİ(Student), 2003

SADIKOĞLU H., Güneş Enerjisi ile Kurutma, Postgraduate, İ.DÜZER(Student), 2003

SADIKOĞLU H., Isı Transferi Denklemlerinin Çeşitli Sayısal Yöntemlerle Çözülmesi, Postgraduate, R.Gürkan(Student), 2002

## Jury Memberships

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, September, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, September, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gebze Teknik Üniversitesi, August, 2024

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız 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

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2024

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Pamukkale 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

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, June, 2023

Associate Professor Exam, Associate Professor Exam, Gebze Technical University, June, 2023  
Associate Professor Exam, Associate Professor Exam, Ataturk University, June, 2023  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, June, 2023  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Teknik Üniversitesi, January, 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  
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  
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, June, 2022  
Post Graduate, Post Graduate, Gebze Teknik 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  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, October, 2019  
Award, TÜBA-GEDİP ÖDÜLLERİ, TURKISH ACADEMY OF SCIENCE, 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

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

Doctorate, TEZ SAVUNMA (DOKTORA), 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. **Higher heating value estimation of wastes and fuels from ultimate and proximate analysis by using artificial neural networks**  
İnsel M. A., Yucel O., Sadıkoğlu H.  
Waste Management, vol.185, pp.33-42, 2024 (SCI-Expanded)
- II. **Optimizing waste-to-energy conversion: Unveiling the potential of unsupervised clustering through the new HOM classification system**  
İnsel M. A., Yucel O., Sadıkoğlu H.  
Sustainable Energy Technologies and Assessments, vol.65, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **A comparison of machine learning algorithms for estimation of higher heating values of biomass and fossil fuels from ultimate analysis**  
Yaka H., Insel M. A., Yucel O., Sadıkoğlu H.  
Fuel, vol.320, 2022 (SCI-Expanded)
- VI. **Computational modeling and experimental verification of cathode catalyst layer on PEM fuel cells**  
Kil Ş., Özdemir O. K., Insel M. A., Sadıkoğlu H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.62, pp.26665-26672, 2022 (SCI-Expanded)
- VII. **Effect of grape derivatives and cross-linked maize starch coatings on the storage life of strawberry fruit**  
Yildirim-Yalcin M., Seker M., Sadıkoğlu H.

PROGRESS IN ORGANIC COATINGS, vol.167, 2022 (SCI-Expanded)

- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **Assessment of CO2 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)
- XX. **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)
- XXI. **Modelling and simulation of a moving interface problem: freeze drying of black tea extract**  
Aydin E. S., Yucel O., Sadikoglu H.  
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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 Büzüşmesinin 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, 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  
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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, SANAYİ, 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 Hakemliđi, 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**

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

## **Metrics**

Publication: 103  
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, Geleceđini 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 DIŐI YÜKSEK LİSANS VE DOKTORA BURSUSU, YOK, 1993 - 1998

## **Non Academic Experience**

University of Missouri-Rolla

University of Missouri-Rolla

TÜBİTAK MARMARA ARAŞTIRMA MERKEZİ