

# Prof. NİLÜFER HİLMİOĞLU

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6047-2018

ScopusID: 6507028121

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## Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1991 - 1998

Postgraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1987 - 1990

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1983 - 1987

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Chemical Engineering and Technology, Membrane Technology, Basic Operations and Thermodynamics, Heat Transfer, Separation Operations, Mass Transfer, Transport Events, Engineering and Technology

## Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2017 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2011 - 2017

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2003 - 2011

Research Assistant PhD, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1998 - 2003

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1991 - 1998

## Academic and Administrative Experience

Head of Department, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2019 - 2022

Head of Department, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2019 - 2022

Ethics Committee Member, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2019 - 2021

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Kocaeli University, Mühendislik Fakültesi, Kimya Mühendisliği, 2017 - 2019

Deputy Head of Department, Kocaeli University, Kimya Mühendisliği Bölümü, 2005 - 2010

## Courses

Mass Transfer, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Unit operationsin chemical engineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
bitirme çalışması, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
TRANSPORT PHENOMENA, Postgraduate, 2017 - 2018  
MEMBRANE AND MEMBRANE PROCESSES, Postgraduate, 2017 - 2018  
Operations involving solid particles, Undergraduate, 2014 - 2015  
ADVANCED MASS TRANSFER, Doctorate, 2013 - 2014  
Membran Technology, Undergraduate, 2012 - 2013  
Kimya Mühendisliği Tasarımı, Undergraduate, 2008 - 2009  
Kaynak Araştırma ve Rapor Yazma Teknikleri, Undergraduate, 2005 - 2006  
Matematiksel Modelleme, Undergraduate, 2004 - 2005  
Kimya Mühendisliği Laboratuvarı, Undergraduate, 2003 - 2004

## Advising Theses

Hilmioğlu N., KİTOSAN TEMELLİ ADSORBANLAR İLE HUMİK ASİT GİDERİMİNİN İNCELENMESİ, Postgraduate, E.Yumat(Student), 2023  
Hilmioğlu N., Membran reaktörde izopropil asetat üretiminin incelenmesi, Postgraduate, N.YENİHAN(Student), 2019  
Hilmioğlu N., Katalitik membranla solketal sentezi, Postgraduate, G.HASIRCI(Student), 2019  
Hilmioğlu N., Katalitik membranla oleik asit esterleşmesinin incelenmesi, Postgraduate, M.CANDEMİR(Student), 2019  
Hilmioğlu N., PVA/CNT hibrid membran ile pervaporatif desalinasyon uygulaması, Postgraduate, B.YILMAN(Student), 2019  
Hilmioğlu N., Dimetil karbonat/metanol azeotropik karışımının pervaporasyonla ayrılması, Postgraduate, A.HACIOĞLU(Student), 2018  
Hilmioğlu N., Pervaporasyon katalitik membran reaktörde yakıt biyokatkılarının üretimi, Doctorate, D.ÜNLÜ(Student), 2017  
Hilmioğlu N., Pervaporasyon biyokatalitik ve katalitik membran reaktör ile etil laktat üretimi, Doctorate, F.UĞUR(Student), 2016  
Hilmioğlu N., Pervaporasyon katalitik membran reaktörde etil asetat üretimine yönelik esterleşme reaksiyonunun incelenmesi, Postgraduate, D.ÜNLÜ(Student), 2012  
Hilmioğlu N., Saf ve zeolit katkılı sodyum aljinat ve poli(dimetil siloksan) membranların pervaporasyon uygulaması, Postgraduate, F.UĞUR(Student), 2011  
Hilmioğlu N., Yağmur suyunda PAH ve pestisit tayini ve alıcı ortam modellemesi, Postgraduate, B.BİNİCİ(Student), 2008  
Hilmioğlu N., Zeolit katkılı polimerik membranların pervaporasyon uygulamaları, Doctorate, H.DOĞAN(Student), 2007

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

- Development of a functional catalytic membrane by alkalization of PVA and green synthesis of fuel additive glycerin carbonate with high oxygen content**  
Hasırcı G., Hilmioğlu N.  
Energy Sources, Part A: Recovery, Utilization, and Environmental , vol.46, no.1, pp.6816-6829, 2024 (SCI-

Expanded)

- II. **Removal of Humic Acid from Water by Adsorption Using Chitosan and Metal Organic Framework ZIF 8 Loaded Chitosan Adsorbents**  
Hilmioğlu N., Yumat E.  
water air soil pollution, vol.235, no.293, pp.1-16, 2024 (SCI-Expanded)
- III. **Synthesis of the Environmentally Friendly Fuel Bioadditive Solketal by the Green Catalytic Membrane PVA/PAMPS**  
Hasirci G., İLGEN O., HİLMİOĞLU N.  
WATER AIR AND SOIL POLLUTION, vol.234, no.11, 2023 (SCI-Expanded)
- IV. **Optimization of Removal of Phosphate from Water by Adsorption Using Biopolymer Chitosan Beads**  
OKTOR K., Yuzer N. Y., Hasirci G., HİLMİOĞLU N.  
Water, Air, and Soil Pollution, vol.234, no.4, 2023 (SCI-Expanded)
- V. **Applicability of membrane reactor for producing environment fuel additive carbonate**  
Yuzer N. Y., Hilmioğlu N.  
GLOBAL NEST JOURNAL, vol.23, no.2, pp.209-217, 2021 (SCI-Expanded)
- VI. **REMOVAL OF AMMONIUM FROM AQUEOUS SOLUTIONS BY ADSORPTION PROCESSES USING ENVIRONMENT FRIENDLY NATURAL BIOPOLYMER CHITOSAN**  
Oktor K., Hilmioğlu N.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.2A, pp.1970-1976, 2021 (SCI-Expanded)
- VII. **Pervaporative Separation of Mixed Volatile Fatty Acids: A Study Towards Integrated VFA Production and Separation**  
YESİL H., TANER h., UĞUR NİGİZ F., HİLMİOĞLU N., TUĞTAŞ KARNABAT A. E.  
WASTE AND BIOMASS VALORIZATION, vol.11, no.5, pp.1737-1753, 2020 (SCI-Expanded)
- VIII. **Enhanced hydrogen purification by graphene - Poly(Dimethyl siloxane) membrane**  
Uğur Nigiz F., Hilmioğlu N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3549-3557, 2020 (SCI-Expanded)
- IX. **Application of aspen plus to renewable hydrogen production from glycerol by steam reforming**  
Unlu D., HİLMİOĞLU N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3509-3515, 2020 (SCI-Expanded)
- X. **Multi-walled carbon nanotube doped PVA membrane for desalination**  
Yilman B., Nigiz F., AYTAÇ A., HİLMİOĞLU N.  
WATER SCIENCE AND TECHNOLOGY-WATER SUPPLY, vol.19, no.4, pp.1229-1237, 2019 (SCI-Expanded)
- XI. **Production of Fuel Bioadditive "Triacetin" Using a Phosphomolybdic-Acid-Loaded PVA Membrane in a Pervaporation Catalytic Membrane Reactor**  
Unlu D., Hilmioğlu N.  
ENERGY & FUELS, vol.33, no.3, pp.2208-2218, 2019 (SCI-Expanded)
- XII. **Pervaporative desalination of seawater using a polyvinylidene fluoride based membrane**  
NIGİZ F., HİLMİOĞLU N.  
WATER SCIENCE AND TECHNOLOGY-WATER SUPPLY, vol.18, no.5, pp.1674-1681, 2018 (SCI-Expanded)
- XIII. **Pervaporation catalytic membrane reactor application over functional chitosan membrane**  
Unlu D., Hilmioğlu N.  
JOURNAL OF MEMBRANE SCIENCE, vol.559, pp.138-147, 2018 (SCI-Expanded)
- XIV. **Ethyl Lactate Synthesis by Catalytic Membranes in a Pervaporation-Assisted Membrane Reactor**  
NIGİZ F., Hilmioğlu N.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.41, no.4, pp.836-844, 2018 (SCI-Expanded)
- XV. **Improvement of fuel properties of biodiesel with bioadditive ethyl levulinate**  
Unlu D., Boz N., İLGEN O., HİLMİOĞLU N.  
OPEN CHEMISTRY, vol.16, no.1, pp.647-652, 2018 (SCI-Expanded)
- XVI. **Fabrication of a novel polyhedral oligomeric silsesquioxanes/polyether-block-amide nano-hybrid membrane for pervaporative separation of model fuel butanol**  
NIGİZ F., Hilmioğlu N.

- JOURNAL OF APPLIED POLYMER SCIENCE, vol.134, no.34, 2017 (SCI-Expanded)
- XVII. **Carbon Black Loaded Composite Poly(Dimethyl Siloxane) Membrane Preparation and Application for Hazardous Chemical Removal from Water**  
NIGIZ F., UNLU D., HİLMİOĞLU N.  
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.693-696, 2017 (SCI-Expanded)
- XVIII. **Biodiesel from Oleic Acid by Green Catalyst "Catalytic Membrane": a Solution to Global Warming Problems**  
UNLU D., NIGIZ F., HİLMİOĞLU N.  
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.689-692, 2017 (SCI-Expanded)
- XIX. **Applicability of a TSA/ZrO<sub>2</sub> catalytic membrane for the production of ethyl levulinate as raw material of gamma-valerolactone**  
Unlu D., Hilmioglu N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.33, pp.21487-21494, 2017 (SCI-Expanded)
- XX. **Reactive separation system for effective upgrade of levulinic acid into ethyl levulinate**  
Unlu D., İLGEN O., Hilmioglu N.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.118, pp.248-258, 2017 (SCI-Expanded)
- XXI. **A study on composite catalytic membrane manufacturing based on sodium alginate and lipase to be used in a pervaporation reactor**  
NIGIZ F., Hilmioglu N.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.43, no.2, pp.1149-1163, 2017 (SCI-Expanded)
- XXII. **Removal of Acetone from Wastewater by POSS Loaded PDMS Membrane**  
NIGIZ F., Hilmioglu N.  
PERIODICA POLYTECHNICA-CHEMICAL ENGINEERING, vol.61, no.3, pp.163-170, 2017 (SCI-Expanded)
- XXIII. **Biodiesel additive ethyl levulinate synthesis by catalytic membrane: SO<sub>4</sub>-2/ZrO<sub>2</sub> loaded hydroxyethyl cellulose**  
Unlu D., İLGEN O., Hilmioglu N.  
CHEMICAL ENGINEERING JOURNAL, vol.302, pp.260-268, 2016 (SCI-Expanded)
- XXIV. **Rhizomucor miehei Lipase-Immobilized Sodium Alginate Membrane Preparation and Usage in a Pervaporation Biocatalytic Membrane Reactor**  
NIGIZ F., HİLMİOĞLU N.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.30, no.3, pp.381-391, 2016 (SCI-Expanded)
- XXV. **Simultaneous separation performance of a catalytic membrane reactor for ethyl lactate production by using boric acid coated carboxymethyl cellulose membrane**  
NIGIZ F., Hilmioglu N.  
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.118, no.2, pp.557-575, 2016 (SCI-Expanded)
- XXVI. **Synthesis of Ethyl Levulinate as a Fuel Bioadditive by a Novel Catalytically Active Pervaporation Membrane**  
Unlu D., Hilmioglu N.  
ENERGY & FUELS, vol.30, no.4, pp.2997-3003, 2016 (SCI-Expanded)
- XXVII. **Pervaporative desalination of seawater by using composite and blended poly (vinyl alcohol) membranes**  
NIGIZ F., Hilmioglu N.  
DESALINATION AND WATER TREATMENT, vol.57, no.11, pp.4749-4755, 2016 (SCI-Expanded)
- XXVIII. **Removal of acetic acid from wastewater by esterification in the membrane reactor**  
Unlu D., Hilmioglu N.  
MEMBRANE WATER TREATMENT, vol.7, no.2, pp.143-154, 2016 (SCI-Expanded)
- XXIX. **Anhydrous fuel ethanol production by a combined hydrophobic-hydrophilic pervaporation system**  
NIGIZ F., Hilmioglu N.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.22, pp.3348-3353, 2016 (SCI-Expanded)
- XXX. **Green solvent synthesis from biomass based source by biocatalytic membrane reactor**

- NIGIZ F., Hilmioglu N.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.40, no.1, pp.71-80, 2016 (SCI-Expanded)
- XXXI. **Pervaporation catalytic membrane reactor study for the production of ethyl acetate using Zr(SO<sub>4</sub>)<sub>2</sub>center dot 4H(2)O coated chitosan membrane**  
Unlu D., Hilmioglu N.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.91, no.1, pp.122-130, 2016 (SCI-Expanded)
- XXXII. **DEHYDRATION OF ETHANOL-WATER MIXTURES BY PERVAPORATION USING HYDROXYETHYL CELLULOSE MEMBRANE**  
Unlu D., Hilmioglu N.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.9, pp.3734-3739, 2016 (SCI-Expanded)
- XXXIII. **Fuel bioadditive production by chitosan/sulfosuccinic acid catalytic membrane**  
Unlu D., Hilmioglu N.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.24, pp.3606-3611, 2016 (SCI-Expanded)
- XXXIV. **Novel environmental friendly process for reducing the sulphur level in fuel: pervaporation**  
NIGIZ F., Hilmioglu N.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.6, no.4, pp.455-465, 2014 (SCI-Expanded)
- XXXV. **Pervaporation of ethanol/water mixtures by zeolite filled sodium alginate membrane**  
NIGIZ F., Hilmioglu N.  
DESALINATION AND WATER TREATMENT, vol.51, pp.637-643, 2013 (SCI-Expanded)
- XXXVI. **Pervaporative separation of isopropyl alcohol/water mixtures: effects of the operation conditions**  
Hilmioglu N., Tulbentci S.  
DESALINATION AND WATER TREATMENT, vol.48, pp.191-198, 2012 (SCI-Expanded)
- XXXVII. **Pervaporation of ethanol/water mixtures using clinoptilolite and 4A filled sodium alginate membranes**  
NIGIZ F., DOĞAN H., Hilmioglu N.  
DESALINATION, vol.300, pp.24-31, 2012 (SCI-Expanded)
- XXXVIII. **SEPARATION OF ALCOHOL/ETHER MIXTURES BY PERVAPORATION: EFFECTS OF THE OPERATION CONDITIONS**  
Hilmioglu N., Tulbentci S.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, no.6, pp.1448-1453, 2012 (SCI-Expanded)
- XXXIX. **Chitosan coated zeolite filled regenerated cellulose membrane for dehydration of ethylene glycol/water mixtures by pervaporation**  
DOĞAN H., Hilmioglu N.  
DESALINATION, vol.258, pp.120-127, 2010 (SCI-Expanded)
- XL. **Zeolite-filled regenerated cellulose membranes for pervaporative dehydration of glycerol**  
DOĞAN H., Hilmioglu N.  
VACUUM, vol.84, no.9, pp.1123-1132, 2010 (SCI-Expanded)
- XLI. **Dissolution of cellulose with NMMO by microwave heating**  
DOĞAN H., Hilmioglu N.  
CARBOHYDRATE POLYMERS, vol.75, no.1, pp.90-94, 2009 (SCI-Expanded)
- XLII. **Separation of benzene/cyclohexane mixtures by pervaporation using PEBA membranes**  
YILDIRIM A. E., Hilmioglu N., Tulbentci S.  
DESALINATION, vol.219, pp.14-25, 2008 (SCI-Expanded)
- XLIII. **Pervaporation of MTBE/methanol mixtures through PVA membranes**  
Hilmioglu N., TULBENTCI S.  
DESALINATION, vol.160, no.3, pp.263-270, 2004 (SCI-Expanded)
- XLIV. **Separation of IPA/water mixtures by pervaporation: sorption and pervaporation results**  
HİLMİOĞLU N., TULBENTCI S.  
VACUUM, vol.72, no.1, pp.35-40, 2003 (SCI-Expanded)
- XLV. **Acetic acid dehydration by pervaporation**

HİLMİOĞLU N., yıldırım A. E., Sakaoğlu S., Tülbentçi S.

CHEMICAL ENGINEERING AND PROCESSING, vol.40, pp.263-267, 2001 (SCI-Expanded)

XLVI. **Pervaporation Separation of Benzene/Cyclohexane Mixtures by Poly(vinyl chloride) Membranes**

HİLMİOĞLU N., TULBENTCI S.

CHEMIE INGENIEUR TECHNIK, vol.24, no.3, pp.275-279, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Boric acid removal from water with alginate based beads and films as adsorbents TR DİZİN**  
Mod K., Hasırcı G., Hilmioğlu N.  
Türk Doğa ve Fen Dergisi, vol.1, pp.1-10, 2024 (Peer-Reviewed Journal)
- II. **Investigation Of Separability Of DMC/Methanol Azeotropic Mixtures By Chitosan Hybrid Membrane TRDİZİN**  
Yenihan Yüzer N., Hasırcı G., Hilmioğlu N.  
Kocaeli Journal of Science and Engineering, vol.5, no.2, pp.205-211, 2022 (Peer-Reviewed Journal)
- III. **Investigation of the Usage of Catalytic Membranes in Chemical Reactions**  
Hasırcı G., Yenihan Yüzer N., Hilmioğlu N.  
Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.5, no.1, pp.9-18, 2022 (Peer-Reviewed Journal)
- IV. **Optimization of Synthesis of Ethyl Acetate by Response Surface Method and Investigation of Reactive Sorption Effect of Hydrogel in Synthesis**  
Hilmioğlu N.  
Avrupa Bilim ve Teknoloji Dergisi, no.35, pp.94-101, 2022 (Peer-Reviewed Journal)
- V. **Yakıt Katkı Maddeleri Solketal ve Solketal Tersiyer Butil Eter Üretimini İncelenmesi**  
Yenihan Yüzer N., Güler H., Hilmioğlu N.  
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.4, no.1, pp.29-36, 2021 (Peer-Reviewed Journal)
- VI. **Yakıt Katkısı Gliserin Karbonatın Pervaporasyon Destekli Sentezi**  
Güler H., Yenihan Yüzer N., HİLMİOĞLU N.  
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.4, no.1, pp.37-41, 2021 (Peer-Reviewed Journal)
- VII. **Purification of emulsified oil by Bentonite loaded polyvinylidene fluoride/polyvinylpyrrolidone membrane**  
Nigiz F. U., Yucak A. I., Hilmioğlu N.  
WATER PRACTICE AND TECHNOLOGY, vol.15, no.2, pp.394-403, 2020 (ESCI)
- VIII. **VOLATILE ORGANIC COMPOUND REMOVAL USING POLYURETHANE BASED SELECTIVE MEMBRANE**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
selçuk teknik dergisi, pp.186-199, 2018 (Peer-Reviewed Journal)
- IX. **Fabrication and Characterization of a Water Selective Membrane to Enhance the Conversion of Esterification**  
NIGIZ F., YENIHAN N., HİLMİOĞLU N.  
MATERIALS FOCUS, vol.7, no.4, pp.519-523, 2018 (Peer-Reviewed Journal)
- X. **UÇAKLARDA BUZLANMA VE BUZLANMAYI ÖNLEYECEK YÖNTEMLER**  
ÜNLÜ D., HİLMİOĞLU N.  
Sürdürülebilir Havacılık Araştırmaları Dergisi, 2017 (Peer-Reviewed Journal)
- XI. **A reactive poly(styrene sulfonic acid) catalyst preparation and usage for fuel additive ester production**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Research on Engineering Structures and Materials, vol.3, pp.89-97, 2017 (Peer-Reviewed Journal)
- XII. **PRODUCTION OF BIOADDITIVE ETHYL LEVULINATE IN THE CATALYTIC MEMBRANE REACTOR**  
ÜNLÜ D., HİLMİOĞLU N.  
Journal of the Turkish Chemical Society, Section B: Chemical Engineering, vol.1, pp.1-12, 2017 (Peer-Reviewed Journal)

- XIII. **Preparation of 3A Zeolite-Loaded Membrane for Hydrogen Recovery from Waste Gas**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Journal of the Turkish Chemical Society, Section B: Chemical Engineering, vol.1, pp.71-80, 2017 (Peer-Reviewed Journal)
- XIV. **Fuel butanol dehydration by using a membrane based pervaporation method**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Research on Engineering Structures and Materials, vol.3, pp.176-184, 2017 (Peer-Reviewed Journal)
- XV. **ETHYL ACETATE SYNTHESIS BY CHITOSAN/ POLY(VINYLPYRROLIDONE) BLEND MEMBRANE IN PERVAPORATION MEMBRANE REACTOR**  
ÜNLÜ D., HACIOĞLU A., HİLMİOĞLU N.  
/ Journal of the Turkish Chemical Society, Section B: Chemical Engineering, vol.1, pp.25-38, 2017 (Peer-Reviewed Journal)
- XVI. **ÇEVRE DOSTU BİYOKATALİK MEMBRAN REAKTÖRDE ETİL LAKTAT SENTEZİ**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.17, 2016 (Peer-Reviewed Journal)
- XVII. **Potential fuel bioadditive ethyl levulinate production for the aviation fuel**  
Unlu D., Hilmioglu N.  
INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.2, no.4, pp.338-347, 2016 (ESCI)
- XVIII. **Kitosan/Sülfosüksinik Asitten Oluşan Katalitik Membran ile Gliserolün Esterleşme Reaksiyonunun İncelenmesi**  
UNLU D., HİLMİOĞLU N.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi A-Uygulamalı Bilimler ve Mühendislik, vol.16, no.2, pp.249-254, 2015 (Peer-Reviewed Journal)
- XIX. **Zeolit Katkılı Poli(dimetil siloksan) Membran ile Saflaştırma İşlemi**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Kauçuk dergisi, pp.32-38, 2014 (Non Peer-Reviewed Journal)
- XX. **Desalination via Innovative Membrane Process**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Journal of Selçuk University Natural and Applied Science, 2013 (Peer-Reviewed Journal)
- XXI. **Bioethanol Production by Pervaporation Membrane Bioreactor**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
Journal of Selçuk University Natural and Applied Science, 2013 (Peer-Reviewed Journal)
- XXII. **Purification of Fuel Bioethanol by Pervaporation**  
UNLU D., HİLMİOĞLU N.  
Journal of Selçuk University Natural and Applied Science, vol.1, pp.760-767, 2013 (Peer-Reviewed Journal)
- XXIII. **Deniz Suyunun Etkin bir Şekilde Saflaştırılmasında Enerji ve Çevre Dostu Teknoloji: Pervaporasyon**  
UĞUR NİGİZ F., ÜNLÜ D., HİLMİOĞLU N.  
Su ve çevre teknolojileri, 2012 (Non Peer-Reviewed Journal)
- XXIV. **Bioethanol recovery using the pervaporation separation technique**  
HİLMİOĞLU N.  
Management of Environmental Quality: An International Journal, vol.20, no.2, pp.165-174, 2009 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Vacuum Stripping Membrane Desalination for Marmara Seawater**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
in: Exergetic, Energetic and Environmental Dimensions, Ibrahim Dincer C. Ozgur Colpan Onder Kizilkan, Editor, Elsevier, pp.1017-1027, 2018

- II. **Waste to Energy With a Combine Membrane Technology:Biobutanol Production and Purification**  
UĞUR NİGİZ F., HİLMİOĞLU N.  
in: Exergetic, Energetic and Environmental Dimensions, Ibrahim Dincer C. Ozgur Colpan Onder Kizilkan, Editor, elsevier, pp.861-871, 2018
- III. **Bioethanol Production From Molasses By Pervaporation Membrane Bioreactor, Chapter 8**  
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## Metrics

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