

# Prof. HALİL KALIPÇILAR

## Personal Information

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## Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1995 - 2000

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1992 - 1995

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1987 - 1992

## Dissertations

Doctorate, Preparation of silicalite/ceramic composite membranes for gas separation, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2000

Postgraduate, Modification of morphology of zeolite A for use as phosphate replacement, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 1995

## Research Areas

Chemical Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2013 - Continues

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2008 - 2013

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2003 - 2008

Lecturer, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2002 - 2003

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 1993 - 2000

## Academic and Administrative Experience

Member of the Senate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2018 - Continues

Director of The Institution, Middle East Technical University, Faculty of Engineering, Department of Chemical

Engineering, 2018 - Continues

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2013 - 2018

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2013 - 2018

Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2008 - 2010

## Courses

Advanced Chemical Engineering Thermodynamics, Postgraduate, 2020 - 2021

## Advising Theses

KALIPÇILAR H., BÜKÜŞOĞLU E., Modification of pebax and zif-8/pebax membranes by additional solvent treatment to improve co<sub>2</sub>/n<sub>2</sub> separation performance, Postgraduate, A.Abdulalem(Student), 2020

KALIPÇILAR H., Preparation and characterization of polymeric blend and mixed matrix membranes by water vapor induced phase inversion, Postgraduate, S.Kibar(Student), 2019

Kalıpçılar H., Topuz B., Vapor separation by mixed matrix polymeric membranes, Doctorate, F.ŞAHİN(Student), 2018

Kalıpçılar H., Büküşoğlu E., Design of functional materials using liquid crystals as molecular templates, Postgraduate, A.KARAUSTA(Student), 2018

Kalıpçılar H., Çalık P., Therapeutic protein production and its separation by zeolitic imidazolate framework-8 adsorbent, Postgraduate, Y.AKGÜN(Student), 2018

KALIPÇILAR H., Polyimide and PEBAX flat and hollow fiber membranes for gas separation, Postgraduate, N.KONÇÜY(Student), 2017

KALIPÇILAR H., ULUDAĞ Y., Experimental and theoretical aspects of membrane based water cooling system, Postgraduate, H.KULAÇ(Student), 2017

Kalıpçılar H., Yılmaz L., Gas permeation and sorption properties of ZIF-8 filled polymeric membranes prepared by infrared and incandescent light induced liquid and vapor phase inversion, Doctorate, B.TÜZÜN(Student), 2017

YILMAZ L., KALIPÇILAR H., Preparation of ZIF-8 loaded PVA and PES mixed matrix membranes for dehydration of ethanol solutions, Postgraduate, E.İREM(Student), 2015

YILMAZ L., KALIPÇILAR H., Polymer blend based mixed matrix gas separation membranes, Postgraduate, M.KARĞILI(Student), 2015

YILMAZ L., KALIPÇILAR H., Synthesis of ethyl citrate by membrane reactors and reactive adsorption, Postgraduate, F.OZANIRK(Student), 2014

KALIPÇILAR H., YILMAZ L., Synthesis of ethyl citrate by membrane reactors & reactive adsorption, Postgraduate, F.Ozanırk(Student), 2014

YILMAZ L., KALIPÇILAR H., Effect of the particle size of ZIF-8 on the separation performance of ZIF-8/pNA/PES membranes, Postgraduate, İ.AYAS(Student), 2014

ÇULFAZ EMECEN P. Z. , KALIPÇILAR H., Fabrication of polyethersulfone hollow fibers for ultrafiltration, Postgraduate, G.KALTALI(Student), 2014

YILMAZ L., KALIPÇILAR H., Development of PBI based membranes for H<sub>2</sub>/CO<sub>2</sub> separation, Postgraduate, M.BAŞDEMİR(Student), 2013

YILMAZ L., KALIPÇILAR H., Development of PBI based membranes for H<sub>2</sub>/CO<sub>2</sub> separation, Postgraduate, M.Başdemir(Student), 2013

YILMAZ L., KALIPÇILAR H., Production and performance evaluation of ZIF-8 based binary and ternary mixed matrix gas separation membranes, Postgraduate, N.KESER(Student), 2012

KALIPÇILAR H., Synthesis of zeolite membranes in flow system, Postgraduate, A.ÖNDER(Student), 2012

YILMAZ L., KALIPÇILAR H., Dehydration of aqueous aprotic solvent mixtures by pervaporation, Postgraduate, G.SARIALP(Student), 2012

KALIPÇILAR H., Pervaporation of ethanol/water mixtures by zeolite A membranes synthesized in batch and flow systems, Postgraduate, B.ARICAN(Student), 2011

YILMAZ L., KALIPÇILAR H., Effect of operating parameters on performance of additive/zeolite/polymer mixed matrix membrane, Postgraduate, E.EDA(Student), 2011

YILMAZ L., KALIPÇILAR H., Effect of operating parameters on performance of additive/ zeolite/ polymer mixed matrix membranes, Postgraduate, E.Eda(Student), 2011

YILMAZ L., KALIPÇILAR H., Dehydration of alcohol solutions obtained from a solvent recovery process by pervaporation, Postgraduate, E.BÜKÜŞOĞLU(Student), 2010

KALIPÇILAR H., Synthesis of binderless tubular Zeolite X macrobodies, Postgraduate, İ.ÇETİNTÜRK(Student), 2010

KALIPÇILAR H., Characterization of zeolite membranes by gas permeation, Doctorate, B.SOYDAŞ(Student), 2009

YILMAZ L., KALIPÇILAR H., Natural gas purification by zeolite filled polyethersulfone based mixed matrix membranes, Postgraduate, Ü.ÇAKAL(Student), 2009

YILMAZ L., KALIPÇILAR H., Effect of preparation and operation parameters on performance of polyethersulfone based mixed matrix gas separation membranes, Postgraduate, E.KARATAY(Student), 2009

KALIPÇILAR H., Syntheses of self-supported tubular zeolite A membranes, Postgraduate, C.GÜCÜYENER(Student), 2008

YILMAZ L., KALIPÇILAR H., Polycarbonate based zeolite 4A filled mixed matrix membranes: Preparation, characterization and gas separation performances, Doctorate, D.ŞEN(Student), 2008

KALIPÇILAR H., Pervaporation of organic/water mixtures by MFI type zeolite membranes synthesized in a flow system, Postgraduate, Ö.DEDE(Student), 2007

KALIPÇILAR H., Synthesis of low silica/alumina zeolite membranes in a flow system, Postgraduate, S.AKBAY(Student), 2007

KALIPÇILAR H., Synthesis and characterization of clinoptilolite, Postgraduate, Ö.GÜVENİR(Student), 2005

KALIPÇILAR H., Effect of seeding on the properties of MFI type zeolite membranes, Postgraduate, E.DİNÇER(Student), 2005

KALIPÇILAR H., Synthesis of MFI type zeolite membranes in a continuous system, Postgraduate, P.ZEYNEP(Student), 2005

KALIPÇILAR H., Investigating the extrusion of alumina silicate pastes for synthesis of monolith zeolite A, Postgraduate, A.ÖZCAN(Student), 2005

YILMAZ L., KALIPÇILAR H., Effect of compatibilizers on the gas separation performance of polycarbonate membranes, Postgraduate, D.ŞEN(Student), 2003

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

- I. **Investigating the State of Skin Layer of Asymmetric Polyethersulfone (PES) - Zeolitic Imidazole Framework-8 (ZIF-8) Mixed Matrix Gas Separation Membranes and Its Effect on Gas Separation Performance**  
TÜZÜN ANTEPLİ B., YILMAZ L., KALIPÇILAR H.  
ChemistrySelect, vol.7, no.21, 2022 (Journal Indexed in SCI Expanded)
- II. **ZIF filled PDMS mixed matrix membranes for separation of solvent vapors from nitrogen**  
Sahin F., Topuz B., Kalipçılar H.  
JOURNAL OF MEMBRANE SCIENCE, vol.598, 2020 (Journal Indexed in SCI)
- III. **Preparation and characterization of supported PES membranes**  
TOPUZ B., YILMAZ L., KALIPÇILAR H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.1, pp.155-164, 2019 (Journal Indexed in SCI)
- IV. **The Gas Permeation Characteristics of Ternary Component Mixed Matrix Membranes Prepared Using ZIF-8 with a Large Range of Average Particle Size**  
Ayas I., YILMAZ L., KALIPÇILAR H.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.57, no.47, pp.16041-16050, 2018 (Journal Indexed in SCI)

- V. **Synthesis of ZIF-7, ZIF-8, ZIF-67, and ZIF-L from recycled mother liquors**  
Sahin F., Topuz B., KALIPÇILAR H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.261, pp.259-267, 2018 (Journal Indexed in SCI)
- VI. **Dehydration of Industrial Byproduct Solutions for Recycling via Pervaporation-Adsorption Hybrid Process**  
BÜKÜŞOĞLU E., KALIPÇILAR H., YILMAZ L.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.57, no.6, pp.2277-2286, 2018 (Journal Indexed in SCI)
- VII. **Investigation and comparison of mixed matrix membranes composed of polyimide matrimid with ZIF-8, silicalite, and SAPO-34**  
Carter D., Tezel F. H., Kruczek B., KALIPÇILAR H.  
JOURNAL OF MEMBRANE SCIENCE, vol.544, pp.35-46, 2017 (Journal Indexed in SCI)
- VIII. **Synthesis of ZSM-5 and SAPO-34 membranes in a high temperature-pressure recirculating-flow system**  
TOPUZ B., Onder A., Bowen T. C., KALIPÇILAR H.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.117, pp.746-755, 2017 (Journal Indexed in SCI)
- IX. **Effect of three different PEO-containing additives on the fouling behavior of PES-based ultrafiltration membranes**  
Kaltali G., Kalipçilar H., Çulfaz Emecen P. Z.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.150, pp.21-28, 2015 (Journal Indexed in SCI)
- X. **Synthesis of ZIF-8 from recycled mother liquors**  
Demir N. K., Topuz B., YILMAZ L., KALIPÇILAR H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.198, pp.291-300, 2014 (Journal Indexed in SCI)
- XI. **Effect of Gas Permeation Temperature and Annealing Procedure on the Performance of Binary and Ternary Mixed Matrix Membranes of Polyethersulfone, SAPO-34, and 2-Hydroxy 5-Methyl Aniline**  
Oral E. E., YILMAZ L., KALIPÇILAR H.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.17, 2014 (Journal Indexed in SCI)
- XII. **Low temperature synthesis of SAPO-34 in a recirculating-flow system**  
Topuz B., Oral E. E., KALIPÇILAR H.  
JOURNAL OF POROUS MATERIALS, vol.20, no.6, pp.1491-1500, 2013 (Journal Indexed in SCI)
- XIII. **Effect of Feed Composition on the Gas Separation Performance of Binary and Ternary Mixed Matrix Membranes**  
Sen D., YILMAZ L., KALIPÇILAR H.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.6, pp.859-866, 2013 (Journal Indexed in SCI)
- XIV. **Effect of feed gas composition on the separation of CO<sub>2</sub>/CH<sub>4</sub> mixtures by PES-SAPO 34-HMA mixed matrix membranes**  
Cakal U., YILMAZ L., KALIPÇILAR H.  
JOURNAL OF MEMBRANE SCIENCE, vol.417, pp.45-51, 2012 (Journal Indexed in SCI)
- XV. **Development of alumina supported ternary mixed matrix membranes for separation of H<sub>2</sub>/light-alkane mixtures**  
Topuz B., YILMAZ L., KALIPÇILAR H.  
JOURNAL OF MEMBRANE SCIENCE, vol.415, pp.725-733, 2012 (Journal Indexed in SCI)
- XVI. **Crystallization field and rate study for the formation of single phase sodium-potassium and potassium clinoptilolite**  
Guvenir O., KALIPÇILAR H., Culfaz A.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.46, no.4, pp.345-350, 2011 (Journal Indexed in SCI)
- XVII. **Preparation and performance assessment of binary and ternary PES-SAPO 34-HMA based gas separation membranes**  
Karatay E., KALIPÇILAR H., YILMAZ L.  
JOURNAL OF MEMBRANE SCIENCE, vol.364, pp.75-81, 2010 (Journal Indexed in SCI)
- XVIII. **Effect of Midsynthesis Addition of Silica to the Synthesis Medium on the Properties of MFI-Type Zeolite Membranes**

- Soydas B., KALIPÇILAR H., Culfaz A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.49, no.11, pp.5407-5414, 2010 (Journal Indexed in SCI)
- XIX. **Separation of gas and organic/water mixtures by MFI type zeolite membranes synthesized in a flow system**  
Soydas B., Dede O., Culfaz A., KALIPÇILAR H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.127, pp.96-103, 2010 (Journal Indexed in SCI)
- XX. **Crystallization of silicalite-1 from clear synthesis solutions: Effect of template concentration on crystallization rate and crystal size**  
Soydas B., Çulfaz Emecen P. Z., Kalipçılar H., Culfaz A.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.44, pp.800-806, 2009 (Journal Indexed in SCI)
- XXI. **Crystallization field study for the formation of single phase sodium clinoptilolite: Batch composition, seed and temperature effects**  
Guevenir O., KALIPÇILAR H., Culfaz A.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.44, no.3, pp.293-299, 2009 (Journal Indexed in SCI)
- XXII. **Effect of Soda Concentration on the Morphology of MFI-Type Zeolite Membranes**  
Soydas B., Culfaz A., KALIPÇILAR H.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.196, pp.182-193, 2009 (Journal Indexed in SCI)
- XXIII. **Synthesis of ZSM-5-type zeolite membranes on, porous disks loaded with different amounts of seed**  
Dincer E., KALIPÇILAR H., Culfaz A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.47, no.14, pp.4743-4749, 2008 (Journal Indexed in SCI)
- XXIV. **Development of polycarbonate based zeolite 4A filled mixed matrix gas separation membranes**  
SEN D., Kalipçilar H., Yilmaz L.  
JOURNAL OF MEMBRANE SCIENCE, vol.303, pp.194-203, 2007 (Journal Indexed in SCI)
- XXV. **Template-free synthesis of ZSM-5 type zeolite layers on porous alumina disks**  
Kalipçilar H., Culfaz A.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.2, pp.233-242, 2007 (Journal Indexed in SCI)
- XXVI. **Separation of butane isomers by MFI membranes synthesized in a flow system**  
Culfaz P. Z., Culfaz A., Kalipçilar H.  
DESALINATION, vol.199, pp.357-359, 2006 (Journal Indexed in SCI)
- XXVII. **Characterization of zeolite membranes by gas permeation**  
Soydas B., Culfaz A., Kalipçilar H.  
DESALINATION, vol.199, pp.371-372, 2006 (Journal Indexed in SCI)
- XXVIII. **Development of zeolite filled polycarbonate mixed matrix gas separation membranes**  
Sen D., Kalipçilar H., Yilmaz L.  
DESALINATION, vol.200, pp.222-224, 2006 (Journal Indexed in SCI)
- XXIX. **Effect of seeding on the properties of MFI type zeolite membranes**  
Dincer E., Culfaz A., Kalipçilar H.  
DESALINATION, vol.200, pp.66-67, 2006 (Journal Indexed in SCI)
- XXX. **Preparation of zeolite A tubes from amorphous aluminosilicate extrudates**  
Oezcan A., Kalipçilar H.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.45, no.14, pp.4977-4984, 2006 (Journal Indexed in SCI)
- XXXI. **Preparation of MFI type zeolite membranes in a flow system with circulation of the synthesis solution**  
Culfaz P. Z., Qulfaz A., Kalipçilar H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.92, pp.134-144, 2006 (Journal Indexed in SCI)
- XXXII. **Gas separation performance of polycarbonate membranes modified with multifunctional low molecular-weight additives**  
Sen D., Kalipçilar H., Yilmaz L.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.41, no.9, pp.1813-1828, 2006 (Journal Indexed in SCI)
- XXXIII. **Pervaporation of organic/water mixtures through B-ZSM-5 zeolite membranes on monolith supports**  
Bowen T., Kalipçilar H., Falconer J., Noble R.

- JOURNAL OF MEMBRANE SCIENCE, vol.215, pp.235-247, 2003 (Journal Indexed in SCI)
- XXXIV. **Synthesis and separation properties of B-ZSM-5 zeolite membranes on monolith supports**  
Kalipcilar H., Gade S., Noble R., Falconer J.  
JOURNAL OF MEMBRANE SCIENCE, vol.210, no.1, pp.113-127, 2002 (Journal Indexed in SCI)
- XXXV. **Separation of C-4 and C-6 isomer mixtures and alcohol-water solutions by monolith supported B-ZSM-5 membranes**  
Bowen T., Kalipcilar H., Falconer J., Noble R.  
DESALINATION, vol.147, pp.331-332, 2002 (Journal Indexed in SCI)
- XXXVI. **Synthesis and separation performance of SSZ-13 zeolite membranes on tubular supports**  
Kalipcilar H., Bowen T., Noble R., Falconer J.  
CHEMISTRY OF MATERIALS, vol.14, no.8, pp.3458-3464, 2002 (Journal Indexed in SCI)
- XXXVII. **Role of the water content of clear synthesis solutions on the thickness of silicalite layers grown on porous alpha-alumina supports**  
Kalipcilar H., Culfaz A.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.52, no.1, pp.39-54, 2002 (Journal Indexed in SCI)
- XXXVIII. **Preparation of B-ZSM-5 membranes on a monolith support**  
Kalipcilar H., Falconer J., Noble R.  
JOURNAL OF MEMBRANE SCIENCE, vol.194, no.1, pp.141-144, 2001 (Journal Indexed in SCI)
- XXXIX. **Influence of nature of silica source on template-free synthesis of ZSM-5**  
Kalipcilar H., Culfaz A.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.36, no.11, pp.1197-1207, 2001 (Journal Indexed in SCI)
- XL. **Synthesis of submicron silicalite-1 crystals from clear solutions**  
Kalipcilar H., Culfaz A.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.35, no.8, pp.933-942, 2000 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **MFI TİPİ ZEOLİT MEMBRANLARIN YÜKSEK SICAKLIKTA GERİ DÖNGÜLÜ AKIŞ SİSTEMİNDE SENTEZİ**  
TOPUZ B., Saka Onder A., KALIPÇILAR H.  
DOKUZ EYLÜL UNIVERSITY FACULTY OF ENGINEERING JOURNAL OF SCIENCE AND ENGINEERING, vol.20, pp.698-710, 2018 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Development of membranes and investigating their potential in Turkish Chemical Industry**  
Kalipçılar H.  
EMCC 2018, Ankara, Turkey, 31 August - 02 September 2018
- II. **ZIF Based PDMS MMMs for Separation Ethanol and IPA from Nitrogen**  
ŞAHİN F., TOPUZ B., KALIPÇILAR H.  
Euromembrane, 9 - 13 July 2018
- III. **Oriented ZIF-L/PEBAX MMMs for CO<sub>2</sub>/N<sub>2</sub> Separation**  
ŞAHİN F., TOPUZ B., KALIPÇILAR H.  
Euromembrane 2018, 9 - 13 July 2018
- IV. **Sanayi ve Proses Gazlarının Ayırımı İçin Karışık Matrisli Membran Üretimine Yönelik Çalışmalar**  
Kalipçılar H.  
5. Ulusal Membran Teknolojileri ve Uygulamaları Sempozyumu, İstanbul, Turkey, 21 - 23 September 2017
- V. **ZIFL/PDMS mixed matrix membranes for separation of ethyl alcohol and isopropyl alcohol from nitrogen**  
Sahin F., TOPUZ B., KALIPÇILAR H.

ICOM, 29 July - 04 August 2017

- VI. **MEMBRANE REACTORS**  
KALIPÇILAR H.  
Solar Fuels Workshop, Turkey, 04 April 2017
- VII. **Polimerik membranlar ile UOB Azot Karışımlarının Ayrılması**  
KALIPÇILAR H., TOPUZ B., ŞAHİN ÇAKANYILDIRIM F.  
Ulusal Kimya Mühendisliği Kongresi 2016, Turkey, 23 - 26 August 2016
- VIII. **Asimetrik Poliimid Gaz Ayırım Membranlarının Hazırlanması ve Karakterizasyonu**  
KALIPÇILAR H., YILMAZ L., TÜZÜN ANTEPLİ B.  
Ulusal Kimya Mühendisliği Kongresi 2016, Turkey, 23 - 26 August 2016
- IX. **Preparation And Characterization of Polymer Blend Based Mixed Matrix Membranes**  
YILMAZ L., KALIPÇILAR H., Melis K.  
EuroMembrane2015, Aachen, Germany, 6 - 10 September 2015
- X. **Effect of PEO containing additives on fouling behaviour of PES based ultra filtration membranes**  
Kaltalı G., KALIPÇILAR H., ÇULFAZ EMECEN P. Z.  
Euromembrane 2015, 7 - 10 September 2015
- XI. **Asymmetric Mixed Matrix PES ZIF 8 Membrane for CO2 Removal from CH4**  
YILMAZ L., KALIPÇILAR H., TÜZÜN ANTEPLİ B.  
Euromembrane 2015, Aachen, Germany, 6 - 10 September 2015
- XII. **Development of ZIF 8 PVA Mixed Matrix Pervaporation Membranes**  
YILMAZ L., KALIPÇILAR H., ŞENYURT E. İ.  
Euromembrane 2015, Aachen, Germany, 6 - 10 September 2015
- XIII. **Solvent Recovery by PDMS ZIFs Mixed Matrix Membranes**  
ŞAHİN ÇAKANYILDIRIM F., TOPUZ B., KALIPÇILAR H.  
Euromembrane 2015, 7 - 10 September 2015
- XIV. **Elif İrem SENYURT Levent YILMAZ Halil KALIPÇILAR**  
ŞENYURT E. İ. , YILMAZ L., KALIPÇILAR H.  
Euromembrane 2015, 7 - 10 September 2015
- XV. **Effect of PEO containing additives on fouling behaviour of PES based ultrafiltration membranes**  
GÜLÇİN K., KALIPÇILAR H., ÇULFAZ EMECEN P. Z.  
Euromembrane, 6 - 11 September 2015
- XVI. **Kirlenmeye karşı dirençli poli eter sülfon ultrafiltrasyon membranlarının üretimi**  
KALTALI G., KALIPÇILAR H., ÇULFAZ EMECEN P. Z.  
Ulusal Kimya Mühendisliği Kongresi (UKMK 11), Eskişehir, Turkey, 2 - 05 September 2014
- XVII. **Alumina destekler üzerinde MFI tipi zeolit membran sentezi**  
ÇULFAZ EMECEN P. Z. , KALIPÇILAR H., ÇULFAZ A.  
18. Ulusal Kimya Kongresi (2004), Kars, Turkey, 22 - 26 July 2013
- XVIII. **Antifouling strategies for ultrafiltration and microfiltration**  
ÇULFAZ EMECEN P. Z. , KALIPÇILAR H., KALTALI G., GENÇAL Y.  
29th Summer School of European Membrane Society, Germany, 22 - 26 July 2013
- XIX. **Kovuklu elyaf tipi polietersülfon ultrafiltrasyon membranlarının üretimi**  
KALTALI G., KALIPÇILAR H., ÇULFAZ EMECEN P. Z.  
10. Ulusal Kimya Mühendisliği Kongresi (UKMK 2012), Turkey, 3 - 06 September 2012
- XX. **Separation of butane isomers by MFI membranes synthesized in a flow system**  
ÇULFAZ EMECEN P. Z. , ÇULFAZ A., KALIPÇILAR H.  
Euromembrane 2006, Taormina, Italy, 24 - 28 September 2006
- XXI. **Sürekli akış sisteminde sentez edilen MFI tipi zeolit membranların tek gaz geçirgenlik ölçümleri ve çift gaz karışımlarının ayrımı ile karakterizasyonu**  
SOYDAŞ SÖZER B., ÇULFAZ EMECEN P. Z. , ÇULFAZ A., KALIPÇILAR H.  
7. Ulusal Kimya Mühendisliği Kongresi (UKMK 2006), Eskişehir, Turkey, 5 - 08 September 2006
- XXII. **Research on zeolite membranes in Chemical Engineering Department of Middle East Technical**

## University

KALIPÇILAR H., DİNÇER E., ÇULFAZ EMECEN P. Z. , SOYDAŞ SÖZER B., ÇULFAZ A.

Application of Nanotechnologies for Separation and recovery of volatile organic compounds (ANVOC 2005), İstanbul, Turkey, 30 May - 01 June 2005

## Supported Projects

KALIPÇILAR H., ÇOLPANKAN M. O. , YILMAZ L., ORUÇ D., Project Supported by Higher Education Institutions, ZIF Katkılı PEBAX ve PES Karışık Matrisli Membranlar ile Gaz Ayırımı, 2018 - 2019

KALIPÇILAR H., Project Supported by Higher Education Institutions, NANO BOYUTLU 2-METİLİMİDAZOL ÇİNKO TUZ KRİSTALLERİNİN SÜREKLİ KARIŞTIRILAN TANK RAKTÖRÜNDE GERİ DÖNÜŞÜMLÜ OLARAK SENTEZLENMESİ, 2017 - 2017

KALIPÇILAR H., Project Supported by Higher Education Institutions, SIVI KRİSTAL ORTAMDA PARÇACIK ETKİLEŞİMLERİNİN İNCELENMESİ, 2017 - 2017

KALIPÇILAR H., Project Supported by Higher Education Institutions, Asimetrik-kompozit kovuklu elyaf gaz ayırım membranlarının üretilmesi, 2017 - 2017

KALIPÇILAR H., Project Supported by Higher Education Institutions, MEMBRAN TEMELLİ SOĞUTMA İŞLEMLERİNİN GERÇEKLEŞTİRİLMESİ, 2017 - 2017

KALIPÇILAR H., Project Supported by Higher Education Institutions, ZIF-8 DOLGULU PDMS KARIŞIK MATRİSLİ MEMBRANLAR, 2017 - 2017

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