

Prof. GÜLSEN ASMAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AFE-4786-2022

ScopusID: 6507052507

Yoksis Researcher ID: 50690

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1994 - 2000

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Turkey 1990 - 1993

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1984 - 1989

Dissertations

Doctorate, Asetik Asit- Su Karışımlarının Poly(vinyl alcohol), Poly(vinyl alcohol)/Poly(acrylic acid),Poly(vinyl alcohol-g-4-vinyl pyridine) Membranlarla Ayrılması, Gazi University, Fen Bilimleri Enstitüsü, 2000

Postgraduate, Poli(metil metakrilat- metakrilik asit) Kopolimrinden Membranlar Hazırlanması ve Deriştirme İşlemlerinde Kullanılması, Gazi University, Fen Bilimleri Enstitüsü, 1993

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Kimya, 2015 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Kimya, 2008 - 2015

Assistant Professor, Gazi University, Fen Fakültesi, Kimya, 2007 - 2008

Research Assistant, Gazi University, Fen Fakültesi, Kimya, 1990 - 2007

Academic and Administrative Experience

Bölüm Akreditasyon Komisyon Başkanı, Gazi University, Fen Fakültesi, Kimya, 2020 - 2024

Gazi University, Fen Fakültesi, Kimya Bölümü, 2008 - 2009

Courses

MESLEKİ YABANCI DİL-İNGİLİZCE, Undergraduate, 2022 - 2023
SENTETİK MEMBRANLAR, Postgraduate, 2022 - 2023
İLERİ FİZİKOKİMYA, Postgraduate, 2022 - 2023
ARAŞTIRMA PROJESİ I, Undergraduate, 2022 - 2023
GENERAL CHEMISTRY I, Undergraduate, 2022 - 2023
YÜKSEK LİSANS TEZ HAZIRLIK (BAHAR DÖNEMİ), Postgraduate, 2017 - 2018
YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2017 - 2018
ARAŞTIRMA PROJESİ I, Undergraduate, 2017 - 2018, 2016 - 2017
ARAŞTIRMA PROJESİ II, Undergraduate, 2017 - 2018, 2016 - 2017
Biyoloji Öğrencileri için Kimya, Undergraduate, 2017 - 2018
YÜKSEK LİSANS TEZ HAZIRLIK, Postgraduate, 2017 - 2018, 2016 - 2017
GENERAL CHEMISTRY II, Undergraduate, 2017 - 2018
YÜKSEK LİSANS UZMANLIK ALAN (BAHAR DÖNEMİ), Postgraduate, 2017 - 2018, 2016 - 2017
Sentetik Membranlar(GÜZ DÖNEMİ), Postgraduate, 2017 - 2018
YÜKSEK LİSANS TEZ ÇALIŞMASI (BAHAR DÖNEMİ), Postgraduate, 2017 - 2018
GENERAL CHEMISTRY LABORATORY, Undergraduate, 2017 - 2018
SENTETİK MEMBRANLAR (BAHAR DÖNEMİ), Postgraduate, 2017 - 2018, 2016 - 2017
SENTETİK MEMBRANLAR, Postgraduate, 2017 - 2018, 2016 - 2017
Mesleki Yabancı Dil, Undergraduate, 2017 - 2018
GENEL KİMYA I (Yaz Okulu), Undergraduate, 2017 - 2018
FİZİKOKİMYA I, Undergraduate, 2017 - 2018
GENEL KİMYA I, Undergraduate, 2017 - 2018
YÜKSEK LİSANS UZMANLIK ALAN, Postgraduate, 2017 - 2018
General Chemistry I, Undergraduate, 2017 - 2018
Genel Kimya Lab, Undergraduate, 2017 - 2018
GENEL KİMYA II, Undergraduate, 2017 - 2018
Fizikokimya I (Yaz Okulu), Undergraduate, 2017 - 2018
YÜKSEK LİSANS TEZ ÇALIŞMASI (BAHAR), Postgraduate, 2016 - 2017
YÜZEY KİMYASI VE KATALİZ, Undergraduate, 2016 - 2017
GENEL KİMYA II (BAHAR DÖNEMİ), Undergraduate, 2016 - 2017
5940004 YÜKSEK LİSANS UZMANLIK ALAN, Postgraduate, 2016 - 2017
GENEL KİMYA I (ŞUBE 2), Undergraduate, 2016 - 2017
GENEL KİMYA I (ŞUBE 1), Undergraduate, 2016 - 2017
5920004 YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2016 - 2017
GENEL KİMYA LABORATUARI, Undergraduate, 2016 - 2017

Advising Theses

ASMAN G., Removal Of Tartrazinefrom Aqueous Solutions: Green Membrane And Green Process, Postgraduate, S.GAHRAMANLI(Student), 2020
ASMAN G., Preparation And Characterization Of Natural Compatible Polymeric Membranes, Postgraduate, E.GÜLER(Student), 2019
ASMAN G., Theophylline release from cellulose acetate membranes that modified by nano-SiO₂, Postgraduate, M.TAŞKIN(Student), 2013
ASMAN G., Investigation of the parameters that affect the theophylline release from biologically compatible cellulose acetate membranes, Postgraduate, E.AKCAY(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A new drug delivery coated matrix membrane system for theophylline delivery**
ASMAN G., Uyanik S.
Polymer Bulletin, vol.81, no.18, pp.16853-16874, 2024 (SCI-Expanded)
- II. **Preparation, characterization, and antibacterial properties of biocompatible material for wound healing**
KONDOLOT SOLAK E., KAYA S., ASMAN G.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.58, no.10, pp.709-716, 2021 (SCI-Expanded)
- III. **Starch-Based Membranes for Controlled Release of 5-Fluorouracil In Vitro**
Berkkan A., Kondolot Solak E., Asman G.
CHEMISTRYSELECT, vol.6, no.23, pp.5678-5684, 2021 (SCI-Expanded)
- IV. **Controlled release of huperzine-A from biocompatible copolymer microspheres**
KONDOLOT SOLAK E., ASMAN G., MUHAMMET S. M.
BULLETIN OF MATERIALS SCIENCE, vol.42, no.2, 2019 (SCI-Expanded)
- V. **Effect of sonic treatment on the permeation performance of cellulose acetate membranes modified by n-SiO₂**
ASMAN G., Kaya M., PEKEL BAYRAMGİL N.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.2, pp.297-305, 2015 (SCI-Expanded)
- VI. **Effect of Membrane Preparation Methods on the Release of Theophylline through CA Membranes at In-Vitro Conditions**
ASMAN G., Akcay E.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.51, no.4, pp.326-338, 2014 (SCI-Expanded)
- VII. **Swelling assisted photografting of itaconic acid onto sodium alginate membranes**
Taskin G., Sanli O., ASMAN G.
APPLIED SURFACE SCIENCE, vol.257, no.22, pp.9444-9450, 2011 (SCI-Expanded)
- VIII. **Synthesis and physical studies of polycarbonate of p-tert-butylcalix[4]arene: a highly selective receptor for Na⁺**
Ashram M., Al-Ghezawi N., Abu Awaad I., Asman G.
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.5, pp.647-656, 2009 (SCI-Expanded)
- IX. **Use of Poly(methyl methacrylate-co-methacrylic acid) Membranes in the Ultrafiltration of Aqueous Fe³⁺Solutions by Complexing with Poly(vinyl pyrrolidone) and Dextran**
Asman G.
SEPARATION SCIENCE AND TECHNOLOGY, vol.44, no.5, pp.1164-1180, 2009 (SCI-Expanded)
- X. **pH- and temperature-sensitive in vitro release of salicylic acid through poly(vinyl alcohol-g-acrylamide) membranes**
Asman G., Sanli O., Tuncel D.
Journal of Applied Polymer Science, vol.107, no.5, pp.3005-3012, 2008 (SCI-Expanded)
- XI. **In vitro release of salicylic acid through poly(vinyl alcohol-g-itaconic acid) membranes**
Asman G., Sanli O., Tuncel D.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.107, no.5, pp.3291-3299, 2008 (SCI-Expanded)
- XII. **Sorption, diffusion, and pervaporation characteristics of dimethylformamide/water mixtures using sodium alginate/polyvinyl pyrrolidone blend membranes**
KONDOLOT SOLAK E., Asman G., ÇAMURLU P., Sanli O.
Vacuum, vol.82, no.6, pp.579-587, 2008 (SCI-Expanded)
- XIII. **Release of salicylic acid through poly(vinyl alcohol)/poly(vinyl pyrrolidone) and poly(vinyl alcohol-g-N-vinyl-2-pyrrolidone) membranes**
Sanli O., Orhan E., Asman G.
Journal of Applied Polymer Science, vol.102, no.2, pp.1244-1253, 2006 (SCI-Expanded)
- XIV. **Separation characteristics of acetic acid-water mixtures by using poly(vinyl alcohol-g-4-vinyl pyridine) membranes by pervaporation and temperature difference evaporation techniques**

- Asman G., Sanli O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.100, no.3, pp.2030-2039, 2006 (SCI-Expanded)
- XV. **Separation characteristics of acetic acid-water mixtures using poly(vinyl alcohol-g-4-vinyl pyridine) membranes by pervaporation and temperature difference evaporation techniques**
Asman G., Sanli O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.100, no.2, pp.1385-1394, 2006 (SCI-Expanded)
- XVI. **Separation of acetic acid-water mixtures through poly(vinyl alcohol)/poly(acrylic acid) alloy membranes by using evaporation and temperature difference evaporation methods**
Asman G., Sanli O.
SEPARATION SCIENCE AND TECHNOLOGY, vol.41, no.6, pp.1193-1209, 2006 (SCI-Expanded)
- XVII. **Separation of acetic acid-water mixtures through acrylonitrile grafted poly(vinyl alcohol) membranes by pervaporation**
Alghezawi N., Sanli O., Aras L., Asman G.
Chemical Engineering and Processing: Process Intensification, vol.44, no.1, pp.51-58, 2005 (SCI-Expanded)
- XVIII. **Release of diclofenac through glutaraldehyde crosslinked poly(vinyl alcohol)/poly(acrylic acid) alloy membranes**
Sanli O., Asman G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.91, no.1, pp.72-77, 2004 (SCI-Expanded)
- XIX. **Characteristics of permeation and separation for acetic acid-water mixtures through poly(vinyl alcohol) membranes modified with poly(acrylic acid)**
Asman G., Sanli O.
Separation Science and Technology, vol.38, no.9, pp.1963-1980, 2003 (SCI-Expanded)
- XX. **Removal of Fe(III) ions from dilute aqueous solutions by alginate acid-enhanced ultrafiltration**
Sanli O., Asman G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.77, no.5, pp.1096-1101, 2000 (SCI-Expanded)
- XXI. **Ultrafiltration of Fe(III) solutions in the presence of poly(vinyl alcohol) using modified poly(methyl methacrylate-co-methacrylic acid) membranes**
Asman G., Sanli O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.64, no.6, pp.1115-1121, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Use of Ultrasound to Prepare Permeable Crosslinked PVA Membranes**
ASMAN G., TAŞKIN ÇAKICI G., KONDOLOT SOLAK E., Sivaprakasam K.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.1, pp.31-43, 2020 (ESCI)
- II. **İYONOMERİK ALJİNİK ASİT MEMBRANLARIN SODYUM KLORÜR, ÜRE, KREATİNİN GEÇİRGENLİKLERİ**
Şanlı O., Asman G.
Gazi University Journal of Science, vol.16, no.1, pp.55-62, 2003 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Physicalchemistry**
Asman G. (Editor)
Palme Yayın Dağıtım, Ankara, 2015
- II. **Fiziko Kimya-Çözüm Kitabı**
Asman G. (Editor), Pekel Bayramgil N. (Editor)
Palme Yayın Dağıtım, Ankara, 2015
- III. **Sentetik Membranlar**
ASMAN G.

Palme Yayınevi, Ankara, 2015

IV. **Kozmetiklere ve Kozmetik Mikrobiyolojisine Giriş**

Gündoğan N., Asman G. (Editor)

Nobel Yayın Dağıtım, Ankara, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Sahila Gahramanli, Gülsen Asman, Çapraz Akışlı Filtrasyon Yöntemi ile Sulu Çözeltilerden Tartrazin Uzaklaştırılması**
ASMAN G.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 March 2020
- II. **Controlled Release of Vancomycin at In-vitro**
ASMAN G., KONDOLOT SOLAK E., BERKKAN A.
ISEEP-2017 VIII. International Symposium on ecology and environmental problems, Çanakkale, Turkey, 4 - 07 October 2017
- III. **Investigation of Release Characteristics of Ketorolac Tromethamine from Ethyl Cellulose Coated Poly(vinyl pyrrolidone)/Sodium Carboxymethyl Cellulose Microspheres**
Asman G., Kondolot Solak E., Akgül S.
VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017
- IV. **Formulation and Controlled Release of Mupirocin from Ethyl Cellulose Coated Poly (vinyl alcohol)/Sodium Alginate Microspheres**
KONDOLOT SOLAK E., ASMAN G., AKGÜL S.
VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017
- V. **Use of Poly(methyl methacrylate-co-methacrylic acid)-Graphite Composite Membranes to Remove Organic Dyes from Aqueous Solutions**
ASMAN G., KONDOLOT SOLAK E.
VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017
- VI. **Removal of Tartrazine (E102) from Aqueous Solutions by using Poly(methyl methacrylate-co-methacrylic acid)-Al Composite Membranes**
ASMAN G., KONDOLOT SOLAK E.
VIII. International Symposium on Ecology and Environmental Problems, Isparta, Turkey, 4 - 07 October 2017
- VII. **Controlled Release of Theophylline at In-Vitro**
ASMAN G., KONDOLOT SOLAK E.
VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017
- VIII. **The Use of Starch/PVA/Graphen Oxide Membranes for the Separation of Aceton Water Mixtures by Evapomeation**
GÜLER E., ASMAN G., BERKKAN A.
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017
- IX. **Ultrasonication: A Green Membrane-Modification Method**
Asman G., Kondolot Solak E., Taşkın Çakıcı G.
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017
- X. **Theophylline Release from Ethyl Cellulose Coated PVP/NaCMC Microspheres**
KONDOLOT SOLAK E., ASMAN G., ÇİÇEK KIRKAYAK N.
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017
- XI. **Green Membrane for the Separation of Acetic Acid-Water Mixtures by Evapomeation**
ASMAN G., KONDOLOT SOLAK E., PAKIR S.

International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017

XII. Release of 5-Fluorouracil from Natural Polymeric Membranes as Controlled Drug Delivery

Ala B., Asman G., Kondolot Solak E.

International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017, pp.170

XIII. Starch: As a Water Permeable Green Membrane

ASMAN G., KONDOLOT SOLAK E., PAKIR S.

International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017

XIV. Sustainable Transdermal Release System for Naproxen

Güler E., Kondolot Solak E., Asman G., Akgül S.

International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017

XV. Separation Characteristics of Dimethylformamide Water Mixtures Using Magnetite Poly Vinyl Alcohol Membranes by Evapomeation

ASMAN G., KONDOLOT SOLAK E., Algezawi N.

1st International Black Sea Congress on Environmental Sciences (IBCESS), Giresun, Turkey, 31 August - 03 September 2016

XVI. SEPARATION OF VOLATILE ORGANIC COMPOUNDS FROM WATER BY USING STARCH PVA MEMBRANES

GÜLER E., ASMAN G.

1ST INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCE, 31 August - 03 September 2016

XVII. Etil Selüloz ile Kaplanmış Çaprazbağlı Poli(vinil alkol)/Poli(vinil piroolidon)-Teofilin Matris Membran Sistemlerden İlaç Salımı

Asman G., Uyanık S.

IV. Fiziksel Kimya Kongresi, Denizli, Turkey, 05 June 2014, pp.172

XVIII. In-Vitro Release of Theophylline through Cellulose Acetate Membranes Modified by n-SiO₂

Asman G., Taşkın M.

The Proceedings of the 1st International Porous and Powder Materials Symposium and Exhibition, İzmir, Turkey, 11 October 2013, pp.563-568

XIX. Preparation and Characterization of Cellulose Acetate Membranes Modified by n-SiO₂

Asman G., Taşkın M., Pekel Bayramgil N.

International Porous and Powder Materials Symposium and Exhibition, PPM 2013, İzmir, Turkey, 3 - 06 September 2013, pp.245

XX. Asimetrik Selüloz Asetat Membranlardan In-vitro Koşullarda Teofilin Salımı.

Asman G., Akçay E.

XXVI. Uluslararası Katılımlı Ulusal Kimya Kongresi, Muğla, Turkey, 01 October 2012, pp.173

XXI. Selüloz Asetat Membranları Hazırlama Parametrelerinin Aktarım Özelliklerine Etkileri",

Asman G., Akçay E.

XXVI. Uluslararası Katılımlı Ulusal Kimya Kongresi, Muğla, Turkey, 01 October 2012, pp.171

XXII. İtakonik asitin Sodyum Aljinat Membranlara Fotokimyasal Olarak Şişme Destekli Aşılması

TAŞKIN G., ŞANLI N. O., ASMAN G.

25.Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011

XXIII. Nano Gözenekli Poli (vinil alkol) Membranların Hazırlanması ve Karakterizasyonu

ASMAN G., TAŞKIN G.

25.Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011

XXIV. Removal of Fe³⁺ Ions in the Presence of Poly(vinyl pyrrolidone) and Dextran by using Poly(methyl methacrylate-co-methacrylic acid) Membranes

Asman G.

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya,

Turkey, 07 March 2010, pp.100

- XXV. **Controlled Release of Salicylic Acid from Poly(vinyl alcohol)/ Poly(vinyl pyrrolidone) Alloy Membranes**
Orhan E., Şanlı O., Asman G.
Biomed-2004, Ankara, Turkey, 06 September 2004, pp.45
- XXVI. **Separation of Acetic Acid-Water Mixtures Using Crosslinked PVA Membranes**
Asman G., Şanlı O.
Proceedings PPS-2001, Antalya, Turkey, 22 October 2001, pp.331
- XXVII. **Metil Metakrilat-Metakrilik Asit Kopolimerinden Dializ Amacıyla Kullanılabilecek Membranların Hazırlanması ve Geçirgenlik Özelliklerinin İncelenmesi**
Şanlı O., Asman G.
I.Kızılırmak Fen Bilimleri Kongresi, Kırıkkale, Turkey, 14 May 1997, pp.248-251
- XXVIII. **Poli(Metil Metakrilat-Etilakrilat) Kopolimerlerinden Membran Hazırlanması ve Sodyum Klorür, Üre, Kreatinin Geçirgenliklerinin İncelenmesi**
Şanlı O., Asman G.
Türkçe Konuşulan Ülkeler 4. Polimer Sempozyumu , İstanbul, Turkey, 18 September 1996, pp.5

Scientific Refereeing

Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, August 2020

CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, July 2020

TURKISH JOURNAL OF CHEMISTRY, National Scientific Refreed Journal, June 2020

CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, September 2019

ADVANCES IN POLYMER TECHNOLOGY, SCI Journal, March 2018

GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, September 2017

Metrics

Publication: 56

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H-Index (Scopus): 9

Representation and Promotion Activities

Institutional Representation, Gazi Üniversitesi, Turkey, Ankara, 2020 - 2024