

Res. Asst. PhD DİDEM AYCAN

Personal Information

Email: didem.aycan@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/didem.aycan>

International Researcher IDs

ScholarID: w21mOPkAAAAJ

ORCID: 0000-0003-0706-3269

Publons / Web Of Science ResearcherID: Z-5714-2019

ScopusID: 57200161489

Yoksis Researcher ID: 196986

Biography

Arş. Gör. Didem AYCAN 1990 yılında İstanbul'da doğdu. İlk ve orta öğrenimini Pendik'te Orhan Sinan Hamzaoğlu İlköğretim Okulu'nda, liseyi ise Kartal Anadolu Lisesi'nde tamamlamıştır. 2013 yılında Hacettepe Üniversitesi Kimya Mühendisliği Bölümü'ndeki lisans eğitimini tamamlamış ve aynı sene İstanbul Teknik Üniversitesi Kimya Mühendisliği Bölümü'nde yüksek lisans eğitimine başlamıştır. Yüksek lisans eğitimi sırasında yine aynı bölümde araştırma görevlisi olarak çalışmıştır. Yüksek lisans eğitimini tamamladıktan sonra Marmara Üniversitesi Kimya Mühendisliği Bölümü'nde doktorasına başlamış ve 2023 yılında doktorasını tamamlamıştır. 2015 yılı Kasım ayından beri Marmara Üniversitesi Kimya Mühendisliği Bölümü Proses ve Reaktör Anabilim Dalı'nda araştırma görevlisi olarak çalışmaktadır.

Education Information

Doctorate, Marmara University, Faculty of Engineering, Chemical Engineering, Turkey 2016 - 2023

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2013 - 2016

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2008 - 2013

Foreign Languages

English, C1 Advanced

German, C1 Advanced

Certificates, Courses and Trainings

Vocational Training, Yüksek Performanslı Sıvı Kromatografi Metodu (HPLC), FQC Uluslararası Belgelendirme ve Eğitim Hizmetleri A.Ş./ Kariyer Sokağı, 2020

Vocational Training, Gaz Kromatografi Metodu (GC), FQC Uluslararası Belgelendirme ve Eğitim Hizmetleri A.Ş./ Kariyer Sokağı, 2020

Vocational Training, Teorik ve Uygulamalı Doku Mühendisliği Yaz Okulu, Hacettepe Üniversitesi, 2016

Dissertations

Postgraduate, An easy way to modify triglyceride oils for oil-based binder preparation, Istanbul Technical University, Kimya Mühendisliği Bölümü, 2016

Research Areas

Engineering and Technology

Academic Titles / Tasks

Research Assistant, Marmara University, Faculty of Engineering, Chemical Engineering, 2015 - Continues

Research Assistant, Istanbul Technical University, Kimya Mühendisliği Bölümü, 2013 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Alginate/hyaluronic acid/gelatin ternary blended films as pH-sensitive drug carriers: In vitro ampicillin release and kinetic studies**
AYCAN D.
International Journal of Biological Macromolecules, vol.277, 2024 (SCI-Expanded)
- II. **Gelatin microsphere-alginate hydrogel combined system for sustained and gastric targeted delivery of 5-fluorouracil**
AYCAN D., Gül İ., Yorulmaz V., ALEMDAR YAYLA N.
International Journal of Biological Macromolecules, vol.255, 2024 (SCI-Expanded)
- III. **Development of hyaluronic acid-based electroconductive hydrogel as a sensitive non-enzymatic glucose sensor**
AYCAN D., KARACA ALBAYRAK F., Alemdar N.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
- IV. **Electro-stimulated drug release by methacrylated hyaluronic acid-based conductive hydrogel with enhanced mechanical properties**
AYCAN D., KARACA ALBAYRAK F., KOCA A., Alemdar N.
International Journal of Biological Macromolecules, vol.231, 2023 (SCI-Expanded)
- V. **Polysaccharide-based electroconductive films for controlled release of ciprofloxacin**
AYCAN D., Dolapci N., Karaca O. G., ALEMDAR YAYLA N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.32, 2022 (SCI-Expanded)
- VI. **Chitosan polyvinyl alcohol blend films for ibuprofen encapsulation: Fabrication, characterization and kinetics**
Aycan D., Yayla N., Aydın Y. A.
POLYMER DEGRADATION AND STABILITY, vol.181, 2020 (SCI-Expanded)
- VII. **Modification of triglyceride oil with benzoxazine functionalized silane for the purpose of oil-based binder**
AYCAN D., Erciyes A. T.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.17, no.2, pp.477-483, 2020 (SCI-Expanded)
- VIII. **Conductive polymeric film loaded with ibuprofen as a wound dressing material**
Aycan D., Selmi B., Kelel E., Yildirim T., Alemdar N.
EUROPEAN POLYMER JOURNAL, vol.121, 2019 (SCI-Expanded)
- IX. **Production of ciprofloxacin loaded chitosan/gelatin/bone ash wound dressing with improved mechanical properties**
Evranoş B., Aycan D., Alemdar N.
CARBOHYDRATE POLYMERS, vol.222, 2019 (SCI-Expanded)

- X. **Development of pH-responsive chitosan-based hydrogel modified with bone ash for controlled release of amoxicillin**
AYCAN D., ALEMDAR YAYLA N.
CARBOHYDRATE POLYMERS, vol.184, pp.401-407, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **JELATİN-BAZLI MİKROKÜRELERDE İLAÇ SALIMININ İNCELENMESİ**
Aycan D., Gül İ., Yorulmaz V., Alemdar Yayla N.
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.1-2
- II. **Development of curcumin loaded reduced graphene oxide based polymeric films for wound dressing applications**
AYCAN D., KARACA ALBAYRAK F., ALEMDAR YAYLA N.
13th European Congress of Chemical Engineering, Germany, 20 - 23 September 2021
- III. **Determination of Optimum Reduced Graphene Oxide Synthesis Method for Conductive Sensing Material Production**
AYCAN D., KARACA ALBAYRAK F., ALEMDAR YAYLA N.
European Biotechnology Congress 2020, Prag, Czech Republic, 24 - 26 September 2020
- IV. **Conductive Polymeric Film Production for Controlled Drug Release Applications**
AYCAN D., ALEMDAR N.
3rd International Conference on Applications in Chemistry and Chemical Engineering, Üsküp, Macedonia, 11 - 15 September 2019
- V. **Chitosan Polyvinyl alcohol Blend Films for Ibuprofen Encapsulation: Fabrication, Characterization and Kinetics**
AYCAN D., ALEMDAR N., AYDIN Y. A.
7th International Conference on Biobased Biodegradable Polymers, Stockholm, Sweden, 17 - 19 June 2019
- VI. **Fabrication of biopolymer-based conductive films for sensing applications**
Aycan D., Dolapçı N., Karaca Ö. G., Alemdar N.
European Biotechnology Congress, Valencia, Spain, 11 - 13 April 2019
- VII. **An optimization study for production of PEDOT:PSS based conductive polymeric films**
AYCAN D., Dolapçı N., Karaca Ö. G., ALEMDAR N.
2nd International Conference on Applications in Chemistry and Chemical Engineering, Belgrade, Serbia And Montenegro, 10 - 14 October 2018
- VIII. **Production of PEDOT:PSS-Based Conductive Polymeric Film For Future Energy Storage Applications**
Dolapçı N., Karaca Ö. G., AYCAN D., ALEMDAR N.
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018
- IX. **Fabrication of reduced graphene oxide-based conductive film for controlled drug delivery applications**
AYCAN D., ALEMDAR N.
8th World Congress on Biopolymers Bioplastics, Germany, 28 - 29 June 2018, vol.9
- X. **PANI-BASED HYDROGEL FOR GLUCOSE SENSING**
ALEMDAR N., AYCAN D., KOCA A., ULUTÜRK C., AKYÜZ D.
International Conference on Applications in Chemistry and Chemical Engineering, Saraybosna, Bosnia And Herzegovina, 11 - 15 October 2017
- XI. **Fabrication of bone ash-reinforced smart hydrogel with enhanced mechanical and thermal performance**
AYCAN D., ALEMDAR N.
European Polymer Federation Congress (EPF2017), Lyon, France, 2 - 07 July 2017
- XII. **Production of pH-stimuli responsive hydrogel for treatment of gastric ulcer**
AYCAN D., ALEMDAR N.

Advanced Polymers via Macromolecular Engineering (APME2017), Gent, Belgium, 21 - 25 May 2017

XIII. Jelatin bazlı iletken polimer sentezi

ALEMDAR N., Oktay S., Yakışık H., AYCAN D.

6. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Turkey, 4 - 07 September 2016

XIV. Jelatin Bazlı İletken Polimer Sentezi

ALEMDAR N., Oktay S., Yakışık H., AYCAN D.

VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016

XV. Chitosan Based Hydrogel with A High Water Uptake Capacity for Biomedical Applications

AYCAN D., ALEMDAR N.

80th PMM Self-assembly in the world of polymers, Prag, Czech Republic, 10 - 14 July 2016

XVI. An Easy Way to Modify Triglyceride Oils for Oil Based Binder Preparation

AYCAN D., ERCİYES A. T.

Bayreuth Polymer Symposium, Bayrut, Germany, 20 - 22 September 2015

Metrics

Publication: 26

Citation (WoS): 147

Citation (Scopus): 172

H-Index (WoS): 4

H-Index (Scopus): 5

Congress and Symposium Activities

15. Ulusal Kimya Mühendisliği Kongresi, Attendee, Çanakkale, Turkey, 2023

13th European Congress on Chemical Engineering, Attendee, Frankfurt, Germany, 2021

European Biotechnology Congress 2020, Attendee, Praha, Czech Republic, 2020

3rd International Conference on Applications in Chemistry and Chemical Engineering, Attendee, Skopje, Macedonia, 2019

7th International Conference on Biobased Biodegradable Polymers, Attendee, Stockholm, Sweden, 2019

European Biotechnology Congress, Attendee, Valencia, Spain, 2019

2nd International Conference On Applications In Chemistry And Chemical Engineering, Attendee, Belgrade, Serbia And Montenegro, 2018

Uluslararası Katılımlı VII. Polimer Bilim Ve Teknoloji Kongresi, Attendee, Eskişehir, Turkey, 2018

8th World Congress On Biopolymers & Bioplastics, Attendee, Berlin, Germany, 2018

International Conference On Applications In Chemistry And Chemical Engineering, Attendee, Sarajevo, Bosnia And Herzegovina, 2017

16th European Polymer Congress, Attendee, Lyon, France, 2017

Advanced Polymers Via Macromolecular Engineering, Attendee, Ghent, Belgium, 2017

VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Attendee, Ankara, Turkey, 2016

80th Prague Meeting On Macromolecules, Attendee, Praha, Czech Republic, 2016

Bayreuth Polymer Symposium, Attendee, Nuremberg, Germany, 2015

Awards

Aycan D., Başar B., Çatı K., CHEMICAL ENGINEERING DESIGN-STYRENE BUTADIENE RUBBER (SBR) PRODUCTION, Türkiye Kimya Sanayicileri Derneği, July 2013