

## Doç. Dr. NESLİHAN ALEMDAR YAYLA

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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ScopusID: 19337218000

Yoksis Araştırmacı ID: 43494

### Biyografi

Neslihan Alemdar is currently Associate Professor in the Department of Chemical Engineering at Marmara University, Istanbul, Turkey. Alemdar received her Ph.D. degree from Istanbul Technical University in Chemical Engineering in 2009. During 2011–2013, She worked as a Post-Doctoral Fellowship at Harvard-MIT Health Sciences and Technology Institute & Massachusetts Institute of Technology (Harvard-MIT) at Tissue Engineering Field (USA). Her research interests are focused on the synthesis of smart polymers and characterization and its application for different areas especially the fabrication of hydrogel for tissue engineering application and drug delivery systems.

### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 2004 - 2009

Yüksek Lisans, Atatürk Üniversitesi, Mühendislik Fakültesi, Türkiye 1994 - 1997

Lisans, Atatürk Üniversitesi, Mühendislik Fakültesi, Türkiye 1990 - 1994

### Yaptığı Tezler

Doktora, Kontrollü/yaşayan serbest radikal polimerizasyonu ile stirenlenmiş yağ üretimi, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 2009

Yüksek Lisans, Orta taneli (1,12 mm-0.50mm) fosfat cevheri ile baca gazı desülfürizasyonu, Atatürk Üniversitesi, Mühendislik Fakültesi, 1997

### Araştırma Alanları

Doku Mühendisliği, Polimer Teknolojisi, Termodinamik, Kütle Aktarımı

### Akademik Unvanlar / Görevler

Doç. Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2018 - Devam Ediyor

Öğretim Görevlisi Dr., Massachusetts Institute of Technology, Harvard-Mit Division Of Health Sciences And Technology, 2011 - 2013

Araştırma Görevlisi, Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2010 - 2011

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 2004 - 2010

Araştırma Görevlisi, İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2004

## Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2016 - 2019

## Yönetilen Tezler

Alemdar Yayla N., Karaca Albayrak F., Development of conductive polymeric materials for sensor applications, Doktora, D.Aycan(Öğrenci), Devam Ediyor

Alemdar Yayla N., Ata O. N., Stirenlenmiş yağ bazlı yüklü membran hazırlama ve karakterizasyonunun incelenmesi, Doktora, M.SEMİH(Öğrenci), 2019

ALEMDAR YAYLA N., Synthesis and modeling of hydrogels for controlled drug delivery, Doktora, D.KAYA(Öğrenci), 2019

ALEMDAR YAYLA N., The synthesis of ph-responsive polymeric film with an enhanced mechanical properties for wound dress applications, Yüksek Lisans, B.EVRANOS(Öğrenci), 2019

Alemdar Yayla N., Fabrication of Hydrogel for Controlled Drug Delivery by Using Photopolymerization Technique, Yüksek Lisans, S.Oktay(Öğrenci), 2018

ALEMDAR YAYLA N., Synthesis of chitosan-based biocompatible conductive polymer for biosensor applications, Yüksek Lisans, C.ULUTÜRK(Öğrenci), 2016

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The effect of sulfonated reduced graphene oxide on the properties of ionic strength sensitive PEC film comprising protein/polysaccharides combined system**  
Gülçelik N., Çifci K. N., ALEMDAR YAYLA N.  
International Journal of Biological Macromolecules, cilt.281, 2024 (SCI-Expanded)
- II. **The comparison of contribution of GO and rGO produced by green synthesis to the properties of CMC-based wound dressing material**  
Karaca Ö. G., Moran B., Türk M., Bal-Öztürk A., İzbudak B., AYDIN Y. A., Utkan G., ALEMDAR YAYLA N.  
International Journal of Biological Macromolecules, cilt.271, 2024 (SCI-Expanded)
- III. **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, cilt.255, 2024 (SCI-Expanded)
- IV. **Development of hyaluronic acid-based electroconductive hydrogel as a sensitive non-enzymatic glucose sensor**  
AYCAN D., KARACA ALBAYRAK F., Alemdar N.  
Materials Today Communications, cilt.35, 2023 (SCI-Expanded)
- V. **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, cilt.231, 2023 (SCI-Expanded)
- VI. **Development of a new route for cation exchange membrane fabrication by using GO reinforced styrenated oil**

- BİNGÖL M. S., ATA O. N., Alemdar N.  
Reactive and Functional Polymers, cilt.178, 2022 (SCI-Expanded)
- VII. **Polysaccharide-based electroconductive films for controlled release of ciprofloxacin**  
AYCAN D., Dolapci N., Karaca O. G., ALEMDAR YAYLA N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.139, sa.32, 2022 (SCI-Expanded)
- VIII. **Bipolar membrane electrodialysis for mixed salt water treatment: Evaluation of parameters on process performance**  
Oner M. R., KANCA A., ATA O. N., YAPICI S., Yaylali N.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, cilt.9, sa.4, 2021 (SCI-Expanded)
- IX. **Chitosan polyvinyl alcohol blend films for ibuprofen encapsulation: Fabrication, characterization and kinetics**  
Aycan D., Yayla N., Aydın Y. A.  
POLYMER DEGRADATION AND STABILITY, cilt.181, 2020 (SCI-Expanded)
- X. **Conductive polymeric film loaded with ibuprofen as a wound dressing material**  
Aycan D., Selmi B., Kelel E., Yildirim T., Alemdar N.  
EUROPEAN POLYMER JOURNAL, cilt.121, 2019 (SCI-Expanded)
- XI. **Production of reduced graphene oxide-based electrically conductive hydrogel by using modified chitosan**  
Uluturk C., Alemdar N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.136, sa.40, 2019 (SCI-Expanded)
- XII. **Production of ciprofloxacin loaded chitosan/gelatin/bone ash wound dressing with improved mechanical properties**  
Evranos B., Aycan D., Alemdar N.  
CARBOHYDRATE POLYMERS, cilt.222, 2019 (SCI-Expanded)
- XIII. **Modeling the drug release from reduced graphene oxide-reinforced hyaluronic acid/gelatin/poly(ethylene oxide) polymeric films**  
Kaya D., KÜÇÜKADA K., Alemdar N.  
CARBOHYDRATE POLYMERS, cilt.215, ss.189-197, 2019 (SCI-Expanded)
- XIV. **Electroconductive hyaluronic acid/gelatin/poly(ethylene oxide) polymeric film reinforced by reduced graphene oxide**  
Kaya D., ALEMDAR YAYLA N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.136, sa.1, 2019 (SCI-Expanded)
- XV. **Electrically controlled release of 5-fluorouracil from conductive gelatin methacryloyl-based hydrogels**  
Oktay S., ALEMDAR YAYLA N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.136, sa.1, 2019 (SCI-Expanded)
- XVI. **Electroconductive 3D polymeric network production by using polyaniline/chitosan-based hydrogel**  
Uluturk C., Alemdar N.  
CARBOHYDRATE POLYMERS, cilt.193, ss.307-315, 2018 (SCI-Expanded)
- XVII. **Development of pH-responsive chitosan-based hydrogel modified with bone ash for controlled release of amoxicillin**  
AYCAN D., ALEMDAR YAYLA N.  
CARBOHYDRATE POLYMERS, cilt.184, ss.401-407, 2018 (SCI-Expanded)
- XVIII. **Oxygen-Generating Photo-Cross-Linkable Hydrogels Support Cardiac Progenitor Cell Survival by Reducing Hypoxia-Induced Necrosis**  
Alemdar N., Leijten J., Camci-Unal G., Hjortnaes J., Ribas J., Paul A., Mostafalu P., Gaharwar A. K., Qiu Y., Sonkusale S., et al.  
ACS BIOMATERIALS SCIENCE & ENGINEERING, cilt.3, sa.9, ss.1964-1971, 2017 (SCI-Expanded)
- XIX. **Fabrication of a novel bone ash-reinforced gelatin/alginate/hyaluronic acid composite film for controlled drug delivery**  
ALEMDAR YAYLA N.

- CARBOHYDRATE POLYMERS, cilt.151, ss.1019-1026, 2016 (SCI-Expanded)
- XX. **Styrenated urethane oil synthesis via CuAAC "click" chemistry approach**  
Yazgan-Birgi P., ALEMDAR YAYLA N., Erciyes A. T.  
PROGRESS IN ORGANIC COATINGS, cilt.84, ss.107-114, 2015 (SCI-Expanded)
- XXI. **Tri-layered elastomeric scaffolds for engineering heart valve leaflets**  
Masoumi N., Annabi N., Assmann A., Larson B. L., Hjortnaes J., Alemdar N., Kharaziha M., Manning K. B., Mayer J. E., Khademhosseini A.  
BIOMATERIALS, cilt.35, sa.27, ss.7774-7785, 2014 (SCI-Expanded)
- XXII. **A paper-based oxygen generating platform with spatially defined catalytic regions**  
Ochoa M., Rahimi R., Huang T. L., Alemdar N., Khademhosseini A., Dokmeci M. R., Ziaie B.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.198, ss.472-478, 2014 (SCI-Expanded)
- XXIII. **Oxygen-releasing biomaterials for tissue engineering**  
Camci-Unal G., Alemdar N., Annabi N., Khademhosseini A.  
POLYMER INTERNATIONAL, cilt.62, sa.6, ss.843-848, 2013 (SCI-Expanded)
- XXIV. **Styrenated sunflower oil polymers from raft process for coating application**  
Alemdar N., Erciyes A. T., Bicak N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.125, sa.1, ss.10-18, 2012 (SCI-Expanded)
- XXV. **Production of oil-based binder by RAFT polymerization technique**  
Alemdar N., Erciyes A. T., Bicak N.  
PROGRESS IN ORGANIC COATINGS, cilt.69, sa.4, ss.522-526, 2010 (SCI-Expanded)
- XXVI. **Preparation of unsaturated polyesters using boric acid as mild catalyst and their sulfonated derivatives as new family of degradable polymer surfactants**  
Alemdar N., Erciyes A. T., Bicak N.  
POLYMER, cilt.51, sa.22, ss.5044-5050, 2010 (SCI-Expanded)
- XXVII. **Benzoxazine Containing Polyester Thermosets with Improved Adhesion and Flexibility**  
Tuzun A., Kışkan B., Alemdar N., Erciyes A. T., Yağcı Y.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, cilt.48, sa.19, ss.4279-4284, 2010 (SCI-Expanded)
- XXVIII. **Surface Modification of Silica, Titania, and Zinc Oxide Micro Particles with Epoxidized Soybean Oil for Preparation of Polystyrene Composite Films**  
Alemdar N., Karagöz B., Erciyes A. T., Bicak N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.116, sa.1, ss.165-171, 2010 (SCI-Expanded)
- XXIX. **Styrenation of air-blown linseed oil by nitroxide-mediated radical polymerization**  
Alemdar N., Erciyes A. T., Yağcı Y.  
PROGRESS IN ORGANIC COATINGS, cilt.67, sa.1, ss.55-59, 2010 (SCI-Expanded)
- XXX. **Styrenation of triglyceride oil by nitroxide mediated radical polymerization**  
Alemdar N., Erciyes A. T., Yağcı Y.  
PROGRESS IN ORGANIC COATINGS, cilt.66, sa.2, ss.99-106, 2009 (SCI-Expanded)
- XXXI. **A method for polymethymetacrylate coating via self-curable unsaturated polyester primer on metal and glass surfaces**  
Alemdar N., Karagoz B., Erciyes A. T., Bicak N.  
PROGRESS IN ORGANIC COATINGS, cilt.60, sa.1, ss.69-74, 2007 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

### **I. Oxygen-Generating Photocrosslinkable Hydrogel**

Alemdar N.

CELL-BASED MICROARRAYS: METHODS AND PROTOCOLS, cilt.1771, ss.241-250, 2018 (Scopus)

### **II. Synthesis of chitosan based hydrogel by using photopolymerization technique**

ALEMDAR N.

Anadolu University Journal of Science and Technology – A, Applied Sciences and Engineering, cilt.17, sa.2, ss.391-

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **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, Almanya, 20 - 23 Eylül 2021
- II. **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, Çek Cumhuriyeti, 24 - 26 Eylül 2020
- III. **Investigation of Sulfonation Time on Ion Exchange Capacity of Cationic Membrane**  
BİNGÖL M. S., ATA O. N., ALEMDAR N.  
INTERNATIONAL SYPOSIUM ON APPLIED SCIENCES AND ENGINEERING, 26 - 28 Kasım 2018
- IV. **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, Sırbistan Ve Karadağ, 10 - 14 Ekim 2018
- V. **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, Türkiye, 9 - 12 Eylül 2018
- VI. **Fabrication of hydrophilic thin films with enhanced electroconductive and mechanical properties by the reinforcement of RGO**  
KAYA D., ALEMDAR N.  
7th International Molecular Biology and Biotechnology Congress (MOLBIOTECH), 25 - 27 Nisan 2018
- VII. **Effect of Initial Salt Concentration on Acid and Base Production from NH<sub>4</sub>Cl - NaCl Solution by Bipolar Membrane Electrodialysis**  
YAPICI S., ATA O. N., ÖNER M. R., H, EMRE S., ALEMDAR N.  
2nd International Conference on Advances in Chemical Engineering Technology, 16 - 17 Kasım 2017
- VIII. **Jelatin bazlı iletken polimer sentezi**  
ALEMDAR N., Oktay S., Yakışık H., AYCAN D.  
6. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Türkiye, 4 - 07 Eylül 2016
- IX. **Isısal ve mekanik özellikleri iyileştirilmiş pH a duyarlı kompozit film eldesi**  
ALEMDAR N.  
12. Ulusal Kimya Mühendisliği Kongresi (UKMK-12), Türkiye, 23 - 26 Ağustos 2016
- X. **Biyomedikal uygulamalar için biyouyumlu iletken film eldesi**  
Yıldırım T., Keleş E., Selmi B., ALEMDAR N.  
12. Ulusal Kimya Mühendisliği Kongresi, Türkiye, 23 - 26 Ağustos 2016
- XI. **Fabrication of reduced graphene oxide chitosan based conductive hydrogel for biomedical applications**  
ALEMDAR N., Ulutürk C.  
2nd World Congress on Biopolymers, 4 - 05 Ağustos 2016
- XII. **Production of chitosan based conductive hydrogel by photopolymerization technique for biomedical applications**  
ALEMDAR N., Ulutürk C.  
46th IUPAC World Polymer Congress, 17 - 21 Temmuz 2016
- XIII. **Oxygen generating photocrosslinkable hydrogel for cardiac progenitor cells survival under hypoxic conditions**  
ALEMDAR N., Camcı Ünal G., Leijten J., Hjortnaes J., Ribas J., Paul A., Mostafalu P., Gaharwar A. K., Qiu Y., Sameer S.,

et al.

46th IUPAC World Polymer Congress, 17 - 21 Temmuz 2016

- XIV. **Preparation of composite film for controlled drug delivery**  
ALEMDAR N.  
8th European Symposium on Biopolymers-ESBP2015, 16 - 18 Eylül 2015
- XV. **Production of chitosan based hydrogel by photopolymerization technique for biomedical applications**  
Ulutürk C., ALEMDAR N.  
2nd International Congress on Biosensors, 10 - 12 Haziran 2015
- XVI. **Gelatin hyaluronic acid sodium alginate bone ash composite films with enhanced thermal and mechanical properties**  
ALEMDAR N.  
13th Mediterranean Congress of Chemical Engineering, 30 Eylül - 03 Ekim 2014
- XVII. **Katı peroksitlerin biyoyumlu hidrojel yapıları üzerine etkisi**  
ALEMDAR N., Camcı Ünal G., Hjortnaes J., Khademhosseini A.  
11. Ulusal Kimya Mühendisliği Kongresi (UKMK-11), Türkiye, 2 - 05 Eylül 2014
- XVIII. **Structure investigations of NiO Al2O3 B2O3 SiO2 in PVA using Sol Gel processing and the electrospinning technique**  
SEVİM F., SEVİMLİ E., DEMİR F., ALEMDAR N.  
1th International Chemistry and Chemical Engineering Congress, Baku, Azerbaijan (2013), 18 - 19 Haziran 2013
- XIX. **Hydrogel based biodegradable scaffolds for cardiac tissue engineering**  
Cancı Ünal G., ALEMDAR N., Annabi N., Khademhosseini A.  
TERMIS-eu, Istanbul, TURKEY 2013, 17 - 20 Haziran 2013
- XX. **A Flexible Laser Defined Paper Platform For Localized Oxygen Generation**  
Ochoa M., Rahimi R., ALEMDAR N., Dokmeci M. R., Khademhosseini A., Ziaie B.  
Transducers 2013 Eurosensors Xxvii: The 17th International Conference On Solid-State Sensors, Actuators And Microsystems Barcelona, SPAIN (2013), 16 - 20 Haziran 2013
- XXI. **Gelatin based Hydrogels as Potential Cellular Delivery Systems for Cardiac Tissue Engineering**  
Cancı Ünal G., ALEMDAR N., Khademhosseini A.  
Society for Biomaterials (SFB) Annual Meeting, 10 - 13 Nisan 2013
- XXII. **Preparation of unsaturated polyesters using boric acid as a mild catalyst**  
ALEMDAR N., ERCİYES A. T., BIÇAK N.  
IUPAC, World Polymer Congress, Virginia Tech., USA (2012), 24 - 29 Haziran 2012
- XXIII. **Elektro Üretim Yöntemi ve Sol Jel Prosesini Kullanarak NiO/Al2O3/B2O3/SiO2 Kompozit Nanoliflerin Üretimi**  
Sevimli E., DEMİR F., ALEMDAR N., SEVİM F.  
1. Ulusal Nanoteknoloji Kongresi (2011), Türkiye, 17 - 18 Haziran 2011
- XXIV. **Styrenated oil production by RAFT method**  
Çağlar N., ALEMDAR N., ERCİYES A. T.  
EPF 2011, XII GEP Congress, Granada, SPAIN (2011), 26 Haziran - 01 Temmuz 2011
- XXV. **Styrenated Oil Synthesized by Click Chemistry Approach**  
Yazgan P., ALEMDAR N., ERCİYES A. T., YAĞCI Y.  
EPF 2011, XII GEP Congress, Granada, SPAIN, (2011), 26 Haziran - 01 Temmuz 2011
- XXVI. **Styrenation of triglyceride oil by controlled living radical polymerization methods**  
ALEMDAR N., ERCİYES A. T., BIÇAK N.  
Baekeland 2009, 2. International Symposium on Thermosets, Antalya, TURKEY (2009), 22 - 25 Kasım 2009
- XXVII. **Styrenation of triglyceride oil through reversible addition fragmentation chain transfer polymerization**  
ALEMDAR N., ERCİYES A. T., BIÇAK N.  
EPF'09 European Polymer Congress, Graz, AUSTRIA (2009), 12 Temmuz - 17 Eylül 2009
- XXVIII. **Keten yağının kontrollü / yaşayan serbest radikal polimerizasyonu ile TEMPO varlığında**

## stirenlenmesi

ALEMDAR N., ERCİYES A. T., YAĞCI Y.

8.Ulusal Kimya Mühendisliği Kongresi (UKMK-8), Türkiye, 26 - 29 Ağustos 2008

XXIX. **A method for preparation of pigment particles with oil modified surfaces**

ALEMDAR N., KARAGÖZ B., ERCİYES A. T., BIÇAK N.

Macro 2008, 42nd World Polymer Congress, Taipei, TAIWAN (2008), 29 Haziran - 04 Temmuz 2008

XXX. **Styrenation of sunflower oil by raft polymerization technique**

ALEMDAR N., KARAGÖZ B., ERCİYES A. T., BIÇAK N.

7th International paint and auxiliary products industry congress exhibition, 10 - 12 Nisan 2008

XXXI. **Styrenation of triglyceride oil through controlled living free radical polymerization by the polymerization by the aid of tempo**

ALEMDAR N., ERCİYES A. T., YAĞCI Y.

7th International Conference on Advanced Polymers Via Macromolecular Engineering, Miami, USA (2007), 15 - 20 Aralık 2007

XXXII. **Fuzel yağının bor ester türevleri üzerinden biyodizele alternatif yakıt üretimi**

ALEMDAR N., ERCİYES A. T., BIÇAK N.

7. Ulusal Kimya Mühendisliği Kongresi (UKMK-7), Türkiye, 5 - 08 Eylül 2006

XXXIII. **Hydroxy functional self curable polyester for primer coating of metal surfaces**

ALEMDAR N., KARAGÖZ B., ERCİYES A. T., BIÇAK N.

1st European Chemistry Congress, Budapest, HUNGARY (2006), 27 - 31 Ağustos 2006

XXXIV. **Styrenation of triglyceride oil controlled living free radical polymerization**

ALEMDAR N., ERCİYES A. T., YAĞCI Y.

6th International Paint, Varnish, Ink Auxiliary Products Industry Congress Exhibition, 17 - 19 Mayıs 2006

## Desteklenen Projeler

Alemdar Yayla N., Yükseköğretim Kurumları Destekli Proje, Synthesis and Modelling of Hydrogels for Controlled Drug Delivery, 2017 - 2019

Alemdar Yayla N., Yükseköğretim Kurumları Destekli Proje, The Synthesis of Thermoresponsive Polymeric Film with an Enhanced Elastic Properties for Wound Dress Applications, 2017 - 2019

Alemdar Yayla N., Yükseköğretim Kurumları Destekli Proje, Fabrication of Hydrogel for Controlled Drug Delivery by Photopolymerization Technique, 2017 - 2018

Alemdar Yayla N., Ata O. N., TÜBİTAK Projesi, Bipolar Membranlı Elektrodializ Prosesi ile Amonyum Klorür ve Sodyum Klorür Çözeltilerinden Amonyak Sodyum Hidroksit ve Hidrojen Klorür Üretiminin İncelenmesi, 2015 - 2018

Alemdar Yayla N., Yükseköğretim Kurumları Destekli Proje, KİTOSAN BAZLI BİYUYUMLU İLETKEN MALZEME ÜRETİMİ VE BİYOSENSÖR UYGULANMASINDA KULLANIMI, 2015 - 2017

Alemdar Yayla N., Özveren U., TÜBİTAK Projesi, Mide ülseri tedavisinde kullanılacak pH a duyarlı termal ve mekanik özellikleri iyileştirilmiş kitosan bazlı akıllı hidrojel sentezi, 2015 - 2017

Alemdar Yayla N., Yükseköğretim Kurumları Destekli Proje, Biyosensör uygulamaları için biyoyumlu iletken polimerlerin geliştirilmesi, 2015 - 2017

Alemdar Yayla N., Khademhosseini A., Diğer Ülkelerdeki Kamu Kurumları Tarafından Desteklenmiş Proje, Tissue Engineered Flexible Sensors Actuators and Electronics for Chronic Wound Management, 2013 - 2014

Alemdar Yayla N., Khademhosseini A., Diğer Ülkelerdeki Kamu Kurumları Tarafından Desteklenmiş Proje, Cardiac Tissue Engineering Project, 2011 - 2013

Erciyes A. T., TÜBİTAK Projesi, Production of Styrenated Oil by Controlled Living Radical Polymerization, 2008 - 2010

Alemdar Yayla N., Erciyes A. T., Yükseköğretim Kurumları Destekli Proje, Production of Styrenated Oil by Controlled Living Radical Polymerization NMRP and RAFT, 2008 - 2010

Alemdar Yayla N., Biçak N., Diğer Resmi Kurumlarca Desteklenen Proje, Organic Synthesis via Boron Ester, 2005 - 2007

## **Metrikler**

Yayın: 68

Atıf (WoS): 626

Atıf (Scopus): 674

H-İndeks (WoS): 13

H-İndeks (Scopus): 14

## **Akademi Dışı Deneyim**

Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology (MIT), United States (USA).

İLSAN & İLTAŞ İlaç ve Hamaddeler Sanayi A.Ş.

Aksoy Plastik Sanayi ve Ticaret A.Ş.