

## Prof. SİBEL TUNÇ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-1651-2016

Yoksis Researcher ID: 24076

### Education Information

Doctorate, Akdeniz University, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, Turkey 1996 - 2001

Postgraduate, Akdeniz University, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, Turkey 1993 - 1996

Undergraduate, Middle East Technical University, Faculty Of Education, Fen Bilimleri Eğitimi / Kimya Öğretmenliği, Turkey 1988 - 1993

### Dissertations

Doctorate, Yenebilir Filmlerin Oksijen ve Karbondioksit Geçirgenliği Ölçümleri ve Film Uygulanan Gıdalarda Meydana Gelen Değişimlerin Analizi, Akdeniz University, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, 2001

Postgraduate, Yenebilir Filmlerin Gıdalar Üzerine Uygulamaları, Akdeniz University, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, 1996

### Research Areas

Chemistry, Analytical Chemistry, fluorimetry, Food Analysis, Chromatographic Analysis, Spectroscopical Methods, Physical Chemistry, Polymers and Their Applications, Composites, nanocomposites, Polymeric Films, Polymeric Materials, Medical Applications of Polymers, Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Professor, Akdeniz University, Fen Fakültesi / Akdeniz Üniversitesi, Kimya, 2013 - Continues

Associate Professor, Akdeniz University, Fen Fakültesi / Akdeniz Üniversitesi, Kimya, 2010 - 2013

Associate Professor, Akdeniz University, Fen Edebiyat Fakültesi / Akdeniz Üniversitesi, Kimya, 2007 - 2010

Assistant Professor, Akdeniz University, Fen Edebiyat Fakültesi / Akdeniz Üniversitesi, Kimya, 2002 - 2007

Lecturer PhD, Akdeniz University, Fen Edebiyat Fakültesi / Akdeniz Üniversitesi, Kimya, 2001 - 2002

Research Assistant, Akdeniz University, Fen Bilimleri Enstitüsü / Akdeniz Üniversitesi, Kimya, 1993 - 2001

## Academic and Administrative Experience

Head of Department, Akdeniz University, Faculty Of Science, Department Of Chemistry, 2020 - Continues  
Fakülte Kurulu Üyesi, Akdeniz University, Faculty Of Science, Department Of Chemistry, 2018 - Continues  
Head of Department, Akdeniz University, Faculty Of Science, Department Of Chemistry, 2017 - Continues  
Enstitü Yönetim Kurulu Üyesi, Akdeniz University, Institute of Science, 2008 - 2017  
BAP Subcommittee Member, Akdeniz University, Institute of Science, 2008 - 2017

## Courses

### Doctorate

DOKTORA DANIŞMANLIK, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

KİMYADA DOKTORA UZMANLIK ALAN DERSİ, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

SEMİNER I, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

KOLLOİT KİMYASI, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

### Postgraduate

İLERİ KROMATOĞRAFİK AYIRMA YÖNTEMLERİ II, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

SEMİNER II, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

KİMYADA YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

YÜKSEK LİSANS DANIŞMANLIK, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

İLERİ KROMATOĞRAFİK AYIRMA YÖNTEMLERİ I, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

### Undergraduate

BİTİRME ÇALIŞMASI II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

KROMATOĞRAFİK AYIRMA YÖNTEMLERİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

GIDALARIN ANALİTİK KİMYASI, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

ENSTRÜMENTAL ANALİZ YÖNTEMLERİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

GIDA KİMYASI, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

BİTİRME ÇALIŞMASI I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

## Supervised Theses

Tunç S., Polisakkarit bazlı pH'a duyarlı kolorimetrik yeni antimikrobiyal nanokompozit biyoindikatör filmlerin hazırlanması ve karakterizasyonu, Postgraduate, A.TEZER(Student), 2023

Tunç S., pH'a Duyarlı Akıllı Meşe Ağacı Palamudu Nişastası/Halloysit Nanotüp/Kuersetin Kompozit Filmlerin

Hazırlanması ve Karakterizasyonu, Postgraduate, Ş.ÇELİK(Student), 2023

Tunç S., Meşe Ağacı Palamodu Nişastası Bazlı Antibakteriyel Özelliğe Sahip Biyoplastik Nişasta/Halloysit Nanotüp/Karanfil Esansiyel Yağı ve Biyoplastik Nişasta/Halloysit Nanotüp/Gümüş Nanopartikül Kompozit Materyallerin Hazırlanması ve Karakterizasyonu, Postgraduate, S.SAĞDIÇ(Student), 2023

Tunç S., Daphne Sericea L ve Daphne Gnidioides L Bitki Türlerinde Bulunan Majör Fenolik Bileşenin Yüksek Performanslı Sıvı Kromatografisi ile Tayini için Metot Optimizasyonunun ve Validasyonunun Gerçekleştirilmesi ve Bitkilerin Farklı Gelişim Dönemlerinde Biyokimyasal İçeriklerinin Belirlenmesi, Postgraduate, T.SEÇMEN(Student), 2021

Tunç S., Asparagus lycicus (Likya Kuşkonmazı) Türünde Bulunan Asparajin Etken Maddesinin Yüksek Performanslı Sıvı Kromatografisi (HPLC) Yöntemi ile Tayini için Metot Optimizasyonu, Validasyonu ve Asparagus lycicus Bitkisinin Fitokimyasal Karakterizasyonu, Postgraduate, O.ÇINAR(Student), 2019

Tunç S., Gıda takviyesi tabletlerinde bulunan glukozamin etken maddesinin yüksek performanslı sıvı kromatografisi (HPLC) yöntemi ile tayini için metot optimizasyonu ve validasyonu, Postgraduate, A.SEMİZ(Student), 2018

Tunç S., Antifungal Özelliğe Sahip Kontrollü İlaç Salımı Gösteren ve Sıcaklığa Duyarlı Kitosan / Karboksimetil Selüloz / Skleroglukan Hidrojellerinin Hazırlanması ve Karakterizasyonu, Doctorate, B.KANCI(Student), 2018

Tunç S., Kontrollü İlaç Salımı Gösteren Montmorillonit İçerikli Agar / K-Karagenan Hidrojel Yara Örtüsü Hazırlanması ve Karakterizasyonu, Doctorate, T.GÜRKAN(Student), 2018

Tunç S., İnsan Kanı Serumunda Karvedilol İlaç Etken Maddesinin Yüksek Performanslı Sıvı Kromatografisi (HPLC) Yöntemi ile Tayini için Metot Optimizasyonu ve Validasyonu, Postgraduate, K.KAPLAN(Student), 2016

Tunç S., İnsan serum albumin proteini ile diklorprop, karbofuran, amitrol ve dikuat arasındaki etkileşimlerin spektroskopik metotlarla incelenmesi, Postgraduate, İ.SOYLU(Student), 2013

Tunç S., Spektroflorimetrik metotla insan serum albumin proteini ile neohesperidin dihidrokalkon ve maprotilin hidroklorür arasındaki etkileşimlerin incelenmesi, Postgraduate, B.KANCI(Student), 2012

Tunç S., İnsan Serum Albumin ve İnsan Hemoglobin Proteinleri ile 5-Azasitidin ve Tramadol Hidroklorür İlaçları Arasındaki Etkileşimlerin Spektroskopik Metotlarla İncelenmesi, Postgraduate, A.ÇETİNKAYA(Student), 2012

TUNÇ S., Fenton prosesi yardımıyla azo grubu içeren asidik boya çözeltilerinin degradasyonunun incelenmesi, Postgraduate, T.GÜRKAN(Student), 2011

Tunç S., Sepiyolit dispersiyonlarının reolojik ve elektrokinetik özellikleri üzerinde anyonik ve noniyonik polimerlerin etkisi, Postgraduate, R.UYSAL(Student), 2009

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

- I. **Development of pH-sensitive colorimetric bioindicator antimicrobial films from oak tree acorn starch, red onion peel extract and methyl cellulose for freshness monitoring of chicken meat**  
Tezer Karaboğa A., Gürkan Polat T., DUMAN O., TUNÇ S.  
International Journal of Biological Macromolecules, vol.307, 2025 (SCI-Expanded)
- II. **Design and characterization of multicolor water-repellent coatings: Impact of alkyl chain length on surface properties**  
Özcan Diker C., Duman O., Tunç S.  
Applied Clay Science, vol.262, 2024 (SCI-Expanded)
- III. **Effect of alkoxysilane chain length on the surface, stability, sorption and oil-water separation properties of novel superhydrophobic porous sorbent materials produced using innovative drainage technique in scCO<sub>2</sub> atmosphere**  
Duman O., Cengiz C., Özcan Diker C., Cengiz U., Güreşir S. M., Tunç S.  
Separation and Purification Technology, vol.345, 2024 (SCI-Expanded)
- IV. **Superhydrophobic melamine sponge-sorbent fabricated using WS<sub>2</sub>, halloysite nanotube, octyltriethoxysilane, tetraethoxysilane, and polydimethylsiloxane for the selective uptake of oil from water**  
Duman O., Özcan Diker C., Güreşir S. M., Cengiz U., Tunç S.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.56, pp.104454, 2023 (SCI-Expanded)
- V. **Fabrication of superhydrophobic melamine sponge composite sorbent in supercritical carbon**

**dioxide atmosphere for selective and effective oil removal from water**

Duman O., Cengiz U., Diker C. Ö., Cengiz C., Güreşir S. M., Tunç S.

Journal of Environmental Chemical Engineering, vol.11, no.6, 2023 (SCI-Expanded)

- VI. **Fabrication and characterization of superhydrophobic halloysite nanotube-based colored hybrid coatings with thermal, chemical, and environmental durability and self-cleaning ability on glass substrate by spray coating technique**  
Diker C. Ö., Duman O., Tunç S.  
Applied Clay Science, vol.244, 2023 (SCI-Expanded)
- VII. **Development of poly(vinyl alcohol)/ $\beta$ -cyclodextrin/P(MVE-MA) composite nanofibers as effective and selective adsorbent and filtration material for the removal and separation of cationic dyes from water**  
Duman O., Polat T. G., Tunç S.  
Journal of Environmental Management, vol.322, 2022 (SCI-Expanded)
- VIII. **Highly hydrophobic and superoleophilic agar/PVA aerogels for selective removal of oily substances from water**  
Duman O., Diker C., Uğurlu H., Tunç S.  
Carbohydrate Polymers, vol.286, 2022 (SCI-Expanded)
- IX. **Fabrication of highly hydrophobic or superhydrophobic electrospun PVA and agar/PVA membrane materials for efficient and selective oil/water separation**  
Duman O., Uğurlu H., Diker C., Tunç S.  
Journal of Environmental Chemical Engineering, vol.10, no.3, 2022 (SCI-Expanded)
- X. **Optimization and Validation of a New HPLC Method for the Determination of Asparagine Active Ingredient in Asparagus lycicus and Phytochemical Characterization of Endemic Asparagus lycicus Specie**  
Cinar O., Duman O., Tunç S.  
FOOD ANALYTICAL METHODS, vol.14, no.10, pp.2003-2016, 2021 (SCI-Expanded)
- XI. **Development of highly hydrophobic and superoleophilic fluoro organothiol-coated carbonized melamine sponge/rGO composite absorbent material for the efficient and selective absorption of oily substances from aqueous environments**  
Duman O., Diker C., Tunç S.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.2, 2021 (SCI-Expanded)
- XII. **Smart antifungal thermosensitive chitosan/carboxymethylcellulose/scleroglucan/montmorillonite nanocomposite hydrogels for onychomycosis treatment**  
BOZOGLAN B. K., DUMAN O., TUNÇ S.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.610, 2021 (SCI-Expanded)
- XIII. **Agar/kappa-carrageenan/montmorillonite nanocomposite hydrogels for wound dressing applications**  
Polat T. G., DUMAN O., TUNÇ S.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.164, pp.4591-4602, 2020 (SCI-Expanded)
- XIV. **Preparation and characterization of thermosensitive chitosan/carboxymethylcellulose/scleroglucan nanocomposite hydrogels**  
Bozoglan B. K., DUMAN O., TUNÇ S.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.162, pp.781-797, 2020 (SCI-Expanded)
- XV. **Preparation and characterization of environmentally friendly agar/kappa-carrageenan/montmorillonite nanocomposite hydrogels**  
POLAT T. G., DUMAN O., TUNÇ S.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.602, 2020 (SCI-Expanded)
- XVI. **Agar/kappa-carrageenan composite hydrogel adsorbent for the removal of Methylene Blue from water**  
DUMAN O., POLAT T. G., DIKER C. O., TUNÇ S.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.160, pp.823-835, 2020 (SCI-Expanded)

- XVII. **Development of a reversed phase-high performance liquid chromatographic method for the analysis of glucosamine sulphate in dietary supplement tablets**  
SEMİZ A., DUMAN O., TUNÇ S.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.93, 2020 (SCI-Expanded)
- XVIII. **Nanosorbent-based solid phase microextraction techniques for the monitoring of emerging organic contaminants in water and wastewater samples**  
Sereshti H., DUMAN O., TUNÇ S., Nouri N., KHORRAM P.  
MICROCHIMICA ACTA, vol.187, no.9, 2020 (SCI-Expanded)
- XIX. **Overview of nanosorbents used in solid phase extraction techniques for the monitoring of emerging organic contaminants in water and wastewater samples**  
Nouri N., KHORRAM P., DUMAN O., TUNÇ S., Sereshti H.  
TRENDS IN ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.25, 2020 (SCI-Expanded)
- XX. **Carbon nanotube, poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and Ag nanoparticle doped gelatin based electro-active hydrogel systems**  
Polat T. G., Ateş K., Bilgin S., Duman O., Özen Ş., Tunç S.  
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.580, 2019 (SCI-Expanded)
- XXI. **Carbon nanotube-based magnetic and non-magnetic adsorbents for the high-efficiency removal of diquat dibromide herbicide from water: OMWCNT, OMWCNT-Fe<sub>3</sub>O<sub>4</sub> and OMWCNT-kappa-carrageenan-Fe<sub>3</sub>O<sub>4</sub> nanocomposites**  
Duman O., Ozcan C., Polat T. G., Tunç S.  
ENVIRONMENTAL POLLUTION, vol.244, pp.723-732, 2019 (SCI-Expanded)
- XXII. **Development of a simple, rapid, accurate, and sensitive method for carvedilol analysis in human blood serum by reversed phase-high performance liquid chromatography with diode array detector**  
KAPLAN K., POLAT T. G., DUMAN O., TUNÇ S.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.41, no.9, pp.532-543, 2018 (SCI-Expanded)
- XXIII. **Removal of triphenylmethane and reactive azo dyes from aqueous solution by magnetic carbon nanotube-k-carrageenan-Fe<sub>3</sub>O<sub>4</sub> nanocomposite**  
DUMAN O., TUNÇ S., KANCI BOZOĞLAN B., GÜRKAN T.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.687, pp.370-383, 2016 (SCI-Expanded)
- XXIV. **Removal of triphenylmethane and reactive azo dyes from aqueous solution by magnetic carbon nanotube-kappa-carrageenan-Fe<sub>3</sub>O<sub>4</sub> nanocomposite**  
DUMAN O., TUNÇ S., BOZOĞLAN B. K., POLAT T. G.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.687, pp.370-383, 2016 (SCI-Expanded)
- XXV. **Effects of montmorillonite on properties of methyl cellulose/carvacrol based active antimicrobial nanocomposites**  
TUNÇ S., DUMAN O., POLAT T. G.  
CARBOHYDRATE POLYMERS, vol.150, pp.259-268, 2016 (SCI-Expanded)
- XXVI. **Synthesis of magnetic oxidized multiwalled carbonnanotube-?-carrageenan-Fe<sub>3</sub>O<sub>4</sub> nanocomposite adsorbent and its application in cationic Methylene Blue dye adsorption**  
DUMAN O., TUNÇ S., GÜRKAN T., KANCI BOZOĞLAN B.  
CARBOHYDRATE POLYMERS, vol.147, pp.79-88, 2016 (SCI-Expanded)
- XXVII. **Synthesis of magnetic oxidized multiwalled carbon nanotube-kappa-carrageenan-Fe<sub>3</sub>O<sub>4</sub> nanocomposite adsorbent and its application in cationic Methylene Blue dye adsorption**  
DUMAN O., TUNÇ S., POLAT T. G., BOZOĞLAN B. K.  
CARBOHYDRATE POLYMERS, vol.147, pp.79-88, 2016 (SCI-Expanded)
- XXVIII. **Adsorptive removal of triarylmethane dye (Basic Red 9) from aqueous solution by sepiolite as effective and low-cost adsorbent**  
DUMAN O., TUNÇ S., POLAT T. G.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.210, pp.176-184, 2015 (SCI-Expanded)
- XXIX. **Determination of adsorptive properties of expanded vermiculite for the removal of C. I. Basic Red 9**

**from aqueous solution: Kinetic, isotherm and thermodynamic studies**

DUMAN O., TUNÇ S., POLAT T. G.

APPLIED CLAY SCIENCE, vol.109, pp.22-32, 2015 (SCI-Expanded)

- XXX. **Investigation of neohesperidin dihydrochalcone binding to human serum albumin by spectroscopic methods**  
Bozoglan B. K., TUNÇ S., DUMAN O.  
JOURNAL OF LUMINESCENCE, vol.155, pp.198-204, 2014 (SCI-Expanded)
- XXXI. **Spectroscopic investigation of the interactions of carbofuran and amitrol herbicides with human serum albumin**  
TUNÇ S., DUMAN O., Soylu I., Bozoglan B. K.  
JOURNAL OF LUMINESCENCE, vol.151, pp.22-28, 2014 (SCI-Expanded)
- XXXII. **Study on the bindings of dichlorprop and diquat dibromide herbicides to human serum albumin by spectroscopic methods**  
TUNÇ S., DUMAN O., Soylu I., Bozoglan B. K.  
JOURNAL OF HAZARDOUS MATERIALS, vol.273, pp.36-43, 2014 (SCI-Expanded)
- XXXIII. **Studies on the interactions of chloroquine diphosphate and phenelzine sulfate drugs with human serum albumin and human hemoglobin proteins by spectroscopic techniques**  
TUNÇ S., DUMAN O., Bozoglan B. K.  
JOURNAL OF LUMINESCENCE, vol.140, pp.87-94, 2013 (SCI-Expanded)
- XXXIV. **Characterization of the Binding of Metoprolol Tartrate and Guaifenesin Drugs to Human Serum Albumin and Human Hemoglobin Proteins by Fluorescence and Circular Dichroism Spectroscopy**  
DUMAN O., TUNÇ S., Bozoglan B. K.  
JOURNAL OF FLUORESCENCE, vol.23, no.4, pp.659-669, 2013 (SCI-Expanded)
- XXXV. **Spectroscopic investigations of the interactions of tramadol hydrochloride and 5-azacytidine drugs with human serum albumin and human hemoglobin proteins**  
TUNÇ S., CETINKAYA A., DUMAN O.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.120, pp.59-65, 2013 (SCI-Expanded)
- XXXVI. **Monitoring the Decolorization of Acid Orange 8 and Acid Red 44 from Aqueous Solution Using Fenton's Reagents by Online Spectrophotometric Method: Effect of Operation Parameters and Kinetic Study**  
TUNÇ S., DUMAN O., Gurkan T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, no.4, pp.1414-1425, 2013 (SCI-Expanded)
- XXXVII. **Spectrophotometric investigation of the interactions between cationic dye (CI Basic Yellow 2) and anionic surfactant (sodium dioctylsulfosuccinate) in the premicellar and micellar region**  
TUNÇ S., DUMAN O., KANCI B.  
DYES AND PIGMENTS, vol.94, no.2, pp.233-238, 2012 (SCI-Expanded)
- XXXVIII. **Rheological measurements of Na-bentonite and sepiolite particles in the presence of tetradecyltrimethylammonium bromide, sodium tetradecyl sulfonate and Brij 30 surfactants**  
TUNÇ S., DUMAN O., KANCI B.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.398, pp.37-47, 2012 (SCI-Expanded)
- XXXIX. **On-line spectrophotometric method for the determination of optimum operation parameters on the decolorization of Acid Red 66 and Direct Blue 71 from aqueous solution by Fenton process**  
TUNÇ S., Gurkan T., DUMAN O.  
CHEMICAL ENGINEERING JOURNAL, vol.181, pp.431-442, 2012 (SCI-Expanded)
- XL. **Electrokinetic and rheological properties of kaolinite in poly(diallyldimethylammonium chloride), poly(sodium 4-styrene sulfonate) and poly(vinyl alcohol) solutions**  
DUMAN O., TUNÇ S., CETINKAYA A.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.394, pp.23-32, 2012 (SCI-Expanded)
- XLI. **Preparation of active antimicrobial methyl cellulose/carvacrol/montmorillonite nanocomposite films**

**and investigation of carvacrol release**

TUNÇ S., DUMAN O.

LWT-FOOD SCIENCE AND TECHNOLOGY, vol.44, no.2, pp.465-472, 2011 (SCI-Expanded)

- XLII. **Electrokinetic and rheological properties of sepiolite suspensions in the presence of hexadecyltrimethylammonium bromide**  
TUNÇ S., DUMAN O., CETINKAYA A.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.377, no.1-3, pp.123-129, 2011 (SCI-Expanded)
- XLIII. **Spectrophotometric studies on the interactions of CI Basic Red 9 and CI Acid Blue 25 with hexadecyltrimethylammonium bromide in cationic surfactant micelles**  
DUMAN O., TUNÇ S., KANCI B.  
FLUID PHASE EQUILIBRIA, vol.301, no.1, pp.56-61, 2011 (SCI-Expanded)
- XLIV. **Preparation and characterization of biodegradable methyl cellulose/montmorillonite nanocomposite films**  
TUNÇ S., DUMAN O.  
APPLIED CLAY SCIENCE, vol.48, no.3, pp.414-424, 2010 (SCI-Expanded)
- XLV. **Electrokinetic and rheological properties of Na-bentonite in some electrolyte solutions**  
DUMAN O., TUNÇ S.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.117, no.1-2, pp.331-338, 2009 (SCI-Expanded)
- XLVI. **Effects of Electrolytes on the Electrokinetic Properties of Pumice Suspensions**  
TUNÇ S., DUMAN O.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.30, no.4, pp.548-555, 2009 (SCI-Expanded)
- XLVII. **Electrokinetic and rheological behaviors of sepiolite suspensions in the presence of poly(acrylic acid sodium salt)s, polyacrylamides, and poly(ethylene glycol)s of different molecular weights**  
TUNÇ S., DUMAN O., UYSAL R.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, no.3, pp.1850-1860, 2008 (SCI-Expanded)
- XLVIII. **The effect of different molecular weight of poly(ethylene glycol) on the electrokinetic and rheological properties of Na-bentonite suspensions**  
TUNÇ S., DUMAN O.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.317, no.1-3, pp.93-99, 2008 (SCI-Expanded)
- XLIX. **Electrokinetic Properties of Vermiculite and Expanded Vermiculite: Effects of pH, Clay Concentration and Mono- and Multivalent Electrolytes**  
DUMAN O., TUNÇ S.  
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TUNÇ S., KAPLAN K., Project Supported by Higher Education Institutions, İnsan Kanı Serumunda Karvedilol İlaç Etken Maddesinin Yüksek Performanslı Sıvı Kromatografisi (HPLC) Yöntemi ile Tayini İçin Metot Optimizasyonu ve Validasyonu, 2015 - 2017

Tunç S., Duman O., Project Supported by Higher Education Institutions, Antimikrobiyal özellikli kontrollü salınım gösteren metil selüloz / montmorillonit / karvakrol nanokompozit filmlerin fiziksel, mekaniksel, bariyer ve termal özelliklerinin incelenmesi, 2013 - 2015

Duman O., Tunç S., Kancı Bozoğlan B., Project Supported by Higher Education Institutions, Magnetik özellikli çok duvarlı karbon nanotüp/ $\kappa$ -karagenan kompozit materyalinin hazırlanması, karakterizasyonu ve sulardan boyar madde gideriminde kullanılması, 2013 - 2015

Tunç S., Duman O., Kancı B., Project Supported by Higher Education Institutions, Bazı ilaçlar (metoprolol, klorokuin, fenelzin sülfat ve guaifenesin) ile insan serum albumin ve insan hemoglobün proteinleri arasındaki etkileşimler üzerine spektrofotometrik çalışmalar, 2010 - 2012

Tunç S., Duman O., TUBITAK Project, Bazı Elektrolit ve Polimer Çözeltilerinde Killerin Elektrokinetik ve Reolojik Özelliklerinin İncelenmesi, 2006 - 2007

TUNÇ S., TUBITAK Project, Yenebilir filmlerle kaplanmış gıdalarda C-vitamini azalışının Spektrofotometrik yöntemle takibi, 2002 - 2004

TUNÇ S., TUBITAK Project, Yenebilir filmlerin yapımı, özelliklerinin incelenmesi ve gıdalara uygulanması, 1995 - 1998

## Patent

Duman O., TUNÇ S., Superhydrophobic and Superoleophilic Composite Sponge Material and the Production Method

Thereof, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: PCT/TR2023/051264 , Standard Registration, 2023

Duman O., TUNÇ S., Süperhidrofobik ve Süperoleofilik Kompozit Sünger Materyal ve Bunun Üretim Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2023/007356 , Standard Registration, 2023

Duman O., TUNÇ S., Kontrollü İlaç Salımı Yapan, Sıcaklığa Duyarlı Antifungal Özellikli Akıllı Hidrojeller, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR201910214 , Standard Registration, 2021

Duman O., TUNÇ S., Smart Temperature-Sensitive Hydrogels with Antifungal Property That Perform Controlled Drug Release, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 17071-39 , Standard Registration, 2020

Duman O., TUNÇ S., A Novel Composite Membrane in Nanofiber Form for Selectively Separating Anionic and Cationic Organic Compounds, and A Preparation Method Thereof, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 051320 , Standard Registration, 2020

Duman O., TUNÇ S., Anyonik ve Katyonik Yapıdaki Organik Bileşikleri Seçimli Olarak Ayırmak İçin Nanolif Formunda Yeni Bir Kompozit Membran ve Bu Membranı Hazırlama Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2019/21099 , Standard Registration, 2019

## Metrics

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## Congress and Symposium Activities

251st American Chemical Society National Meeting & Exposition, Attendee, California, United States Of America, 2016

II. International Turkish Congress on Molecular Spectroscopy-TURCMOS 2015, Attendee, Antalya, Turkey, 2015

44th IUPAC World Chemistry Congress, Attendee, İSTANBUL, Turkey, 2013

8th Aegean Analytical Chemistry Days, Attendee, İZMİR, Turkey, 2012

EUROCLAY, Attendee, ANTALYA, Turkey, 2011

1st International Congress on Food Technology, Attendee, ANTALYA, Turkey, 2010

Chemical Physics VII- The Seventh International Conference on Chemical Physics, Attendee, EĞİRDİR, Turkey, 2006

Biomedical Vibrational Spectroscopy III: Advances in Research and Industry, Attendee, ABD, Turkey, 2006

11th Weurman Flavour Research Symposium, Attendee, DANİMARKA, Turkey, 2005

Health Monitoring Smart Nondestructive Evaluation of Structural and Biological Systems IV, Attendee, ABD, Turkey, 2005

Health Monitoring Smart Nondestructive Evaluation of Structural and Biological Systems III, Attendee, ABD, Turkey, 2004

XVI. Ulusal Kimya Kongresi, Attendee, KONYA, Turkey, 2002

MBCAC III-3rd Mediterranean Basin Conference on Analytical Chemistry, Attendee, ANTALYA, Turkey, 2000

XIII. Ulusal Kimya Kongresi, Attendee, SAMSUN, Turkey, 1999

## Scholarships

Araştırma Bursu (6 Ay), Institut National de la Recherche Agronomique (INRA), Montpellier, FRANCE, University, 2005 - 2005

TÜBİTAK, NATO-B1 Yurt Dışı Doktora Sonrası Araştırma Burs Programı (6 Ay), Université Montpellier II, Ingénierie des

Agropolymères et Technologies Emergentes (IATE), FRANCE, NATO, 2004 - 2004

Araştırma Desteği, Instituto de Ciencia de Materiales de Madrid (CSIC), Cantoblanco, Madrid, SPAIN, Official Institutions of Foreign Countries, 2004 - 2004

Araştırma Bursu (6 Ay), Research Centre of Rossendorf, Institute of Ion Beam Physics and Material Research, Dresden, GERMANY, Official Institutions of Foreign Countries, 2004 - 2004

DAAD-Doktora Sonrası Araştırma Bursu, Dresden University of Technology, Institute of Analytical Chemistry, GERMANY, Humboldt Program, 2003 - 2003

## **Awards**

TUNÇ S., Akdeniz Üniversitesi 2012 Yılı Bilim Ödülü (Temel ve Mühendislik Bilimleri Alanında), AKDENİZ ÜNİVERSİTESİ, December 2012

TUNÇ S., Akdeniz Üniversitesi 2007 Yılı Teşvik Ödülü (Temel ve Mühendislik Bilimleri Alanında), AKDENİZ ÜNİVERSİTESİ, December 2007