

## Asst. Prof. Yeliz ELALMIŞ

### Personal Information

**Fax Phone:** [+90 212 383 4625](tel:+902123834625)

**Email:** [elalmis@yildiz.edu.tr](mailto:elalmis@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/elalmis>

**Address:** Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Biyomühendislik Bölümü, Davutpaşa Kampüsü, Esenler/İstanbul

### International Researcher IDs

ScholarID: FYEzAKMAAAAJ

ORCID: 0000-0002-6871-2202

Publons / Web Of Science ResearcherID: GLS-7846-2022

ScopusID: 55637412600

Yoksis Researcher ID: 174237

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Biyomühendislik, Turkey 2008 - 2015

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Biyomühendislik, Turkey 2005 - 2008

Undergraduate, Balıkesir University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2000 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Dental Kompozitlerde Pirinç Kabuğu Külünden Üretilen Silika Tozlarının Kullanılması, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Biyomühendislik, 2015

Postgraduate, Miyeloperoksidaz Enziminin Lösemi Tedavisinde Kullanılan Doksorubisine Etkisinin İncelenmesi , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Biyomühendislik, 2008

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Chemistry, Biochemistry, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2022 - Continues

Research Assistant PhD, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of

Bioengineering, 2015 - 2022

Research Assistant, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2009 - 2015

## Courses

### Undergraduate

Enzyme Technology, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Biyokimyasal Mühendislik, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Separation Processes in Bioengineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Biochemical Engineering, Undergraduate, 2021 - 2022, 2020 - 2021

Biomedical Materials, Undergraduate, 2018 - 2019

## Supervised Theses

YÜCEL S., ELALMIŞ Y., Dekstran Kaplı Silika Aerojellerin Kolon Kanseri Tedavisi İçin İlaç Salım Sistemi Olarak Geliştirilmesi, Postgraduate, E.Tiryaki(Student), 2017

## Jury Memberships

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, March, 2023

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, January, 2023

## Designed Lessons

### Undergraduate

Elalmış Y., Enzyme Technology, Undergraduate, 2018 - 2019

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

- I. **Evaluation of mesoporous CrB particles synthesized via sol-gel method as potential antibacterial interior paint nano-additive**  
Coşkuner Filiz B., Elalmış Y., Altıkatoğlu Yapaöz M., Kantürk Figen A.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.0, no.0, 2025 (SCI-Expanded)
- II. **Characterizations and solubility profile of novel senary SiO<sub>2</sub>-CaO-Na<sub>2</sub>O-P<sub>2</sub>O<sub>5</sub>-CaF<sub>2</sub>-SrO glass structure modified with Nb<sub>2</sub>O<sub>5</sub>**  
Özarlan A. C., ÖZEL C., YÜCEL S., ELALMIŞ Y.  
Ceramics International, vol.50, no.17, pp.30980-30996, 2024 (SCI-Expanded)
- III. **Green Electrospun Poly(vinyl alcohol)/Gelatin-Based Nanofibrous Membrane by Incorporating 45S5 Bioglass Nanoparticles and Urea for Wound Dressing Applications: Characterization and In Vitro and In Vivo Evaluations**  
Temel-Soylu T. M., Keçeciler-Emir C., Rababah T., Özel C., Yücel S., Elalmış Y., Altan D., Kirgiz Ö., Seçinti İ. E., Kaya U., et al.  
ACS Omega, vol.9, no.19, pp.21187-21203, 2024 (SCI-Expanded)
- IV. **Mesoporous silica aerogels for sunflower oil refining and investigation of their adsorption performance**

Soylu T. M., ÖZEL C., Karakuzu İkizler B., Özarslan A. C., Terzioğlu P., ELALMIŞ Y., YÜCEL S.

Journal of Sol-Gel Science and Technology, 2024 (SCI-Expanded)

- V. **Fabrication and characterization of chlorhexidine gluconate loaded poly(vinyl alcohol)/45S5 nano-bioactive glass nanofibrous membrane for guided tissue regeneration applications**  
Emir C., Elalmış Y., Şahin Y. M., Buluş E., Yücel S.  
BIOPOLYMERS, vol.23562, pp.1-18, 2023 (SCI-Expanded)
- VI. **Evaluation of biocomposite putty with strontium and zinc co-doped 45S5 bioactive glass and sodium hyaluronate**  
Özel C., Çevlik C. B., Özarslan A. C., Emir C., Elalmis Y. B., Yücel S.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.242, no.2, pp.124901, 2023 (SCI-Expanded)
- VII. **Fabrication of stable electrospun blended chitosan-poly(vinyl alcohol) nanofibers for designing naked-eye colorimetric glucose biosensor based on GOx/HRP**  
Filiz B. C., Elalmis Y. B., Bektas I. S., Figen A.  
International Journal of Biological Macromolecules, vol.192, pp.999-1012, 2021 (SCI-Expanded)
- VIII. **Amorphous biogenic silica production and utilization in experimental dental composites: Effect of silica gel formation pH on silica and composite properties**  
ELALMIŞ Y., YÜCEL S., AYDIN İ.  
POLYMER COMPOSITES, vol.42, no.10, pp.5111-5124, 2021 (SCI-Expanded)
- IX. **Investigation of alumina doped 45S5 glass as a bioactive filler for experimental dental composites**  
Elalmış Y., Karakuzu İkizler B., Kılıç Depren S., Yücel S., Aydın İ.  
INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, vol.12, no.3, pp.313-327, 2021 (SCI-Expanded)
- X. **Production of biosilica based bioactive glass-alginate composite putty as bone support material, and evaluation of in vitro properties; bioactivity and cytotoxicity behavior**  
Ozarslan A. C., Elalmis Y., YÜCEL S.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.561, 2021 (SCI-Expanded)
- XI. **Novel organic/inorganic hybrid nanoparticles as enzyme-triggered drug delivery systems: Dextran and Dextran aldehyde coated silica aerogels**  
Tiryaki E., Elalmis Y. B., İkizler B. K., YÜCEL S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.56, 2020 (SCI-Expanded)
- XII. **Role of magnesium and aluminum substitution on the structural properties and bioactivity of bioglasses synthesized from biogenic silica**  
Karakuzu-İkizler B., Terzioğlu P., Elalmış Y., Tekerek B. S., Yücel S.  
BIOACTIVE MATERIALS, vol.5, no.1, pp.66-73, 2020 (SCI-Expanded)
- XIII. **Investigation of Mg, K, Cu, Zn doped S53P4 bioactive glass in vitro studies; bioactivity and biodegradability features**  
Çevlik C. B., Özarslan A. C., Karakuzu İkizler B., Elalmış Y., Yücel S.  
Journal Of The Indian Chemical Society, vol.96, pp.1131-1136, 2019 (SCI-Expanded)
- XIV. **Synthesis of glucose oxidase-PEG aldehyde conjugates and improvement of enzymatic stability**  
Vardar G., Altikatoglu M., Basaran Y., İŞILDAK İ.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, no.4, pp.788-794, 2018 (SCI-Expanded)
- XV. **The effect of process variables on the properties of nanoporous silica aerogels: an approach to prepare silica aerogels from biosilica**  
Temel T. M., İkizler B. K., Terzioğlu P., Yücel S., Elalmis Y.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.84, pp.51-59, 2017 (SCI-Expanded)
- XVI. **Thermo-Responsive Complexes of c-Myc Antisense Oligonucleotide with Block Copolymer of Poly(OEGMA) and Quaternized Poly(4-Vinylpyridine)**  
Topuzoğulları M., Elalmis Y., Isoglu S. D.  
MACROMOLECULAR BIOSCIENCE, vol.17, 2017 (SCI-Expanded)
- XVII. **Enzymatic activity of a novel halotolerant lipase from Haloarcula hispanica 2TK2**  
Ozgen M., Attar A., Elalmış Y., Birbir M., Yücel S.  
POLISH JOURNAL OF CHEMICAL TECHNOLOGY, vol.18, pp.20-25, 2016 (SCI-Expanded)

- XVIII. **Protective Effect of Dextrans on Glucose Oxidase Denaturation and Inactivation**  
ALTİKATOĞLU YAPAÖZ M., ELALMIŞ Y.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.40, pp.261-265, 2012 (SCI-Expanded)
- XIX. **Additive Effect of Dextrans on the Stability of Horseradish Peroxidase**  
Altikatoglu M., Basaran Y.  
PROTEIN JOURNAL, vol.30, no.2, pp.84-90, 2011 (SCI-Expanded)
- XX. **Glucose Oxidase-dextran Conjugates with Enhanced Stabilities Against Temperature and pH**  
Altikatoglu M., Basaran Y., Arioz C., OGAN A., Kuzu H.  
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.160, no.8, pp.2187-2197, 2010 (SCI-Expanded)
- XXI. **Stabilization of horseradish peroxidase by covalent conjugation with dextran aldehyde against temperature and pH changes**  
Altikatoglu M., Arioz C., Basaran Y., Kuzu H.  
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, vol.7, no.3, pp.423-428, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Biomedical applications of wearable biosensors**  
Bakri M. H., ÖZARSLAN A. C., ERARSLAN A., ELALMIŞ Y., Ciftci F.  
Next Materials, vol.3, 2024 (Scopus)
- II. **Effect of  $Al_2O_3$  doping on antibacterial activity of 45S5 bioactive glass**  
Elalmış Y. B.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.8, no.2, pp.419-428, 2021 (Scopus)
- III. **EFFECT OF ACID TYPE AND GELATION pH ON THE STRUCTURAL PROPERTIES OF SILICA AEROGELS PREPARED BY USE OF RICE HULL BIOSILICA**  
KARAKUZU B., TEMEL T. M., YÜCEL S., TERZİOĞLU P., ELALMIŞ Y.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.34, no.2, pp.175-182, 2016 (ESCI)
- IV. **Production, Characterization and Bioactivity of 46S6 Bioactive Glass from Rice Hull Ash Silica**  
YÜCEL S., AYDIN SİNİROĞLU ., KARAKUZU B., TEMEL T. M., ELALMIŞ Y., ÖZARSLAN A. C.  
ADVANCED MATERIALS RESEARCH, pp.857-861, 2015 (Peer-Reviewed Journal)
- V. **SYNTHESIS, CHARACTERIZATION, IN VITRO DEGRADABILITY AND BIOACTIVITY OF STRONTIUM SUBSTITUTED RICE HULL ASH SILICA BASED MELT DERIVED 45S5 BIOACTIVE GLASS**  
YÜCEL S., TERZİOĞLU P., Sinirlioglu Z. A., TEKEREK B. S., ELALMIŞ Y.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.33, no.1, pp.23-32, 2015 (ESCI)
- VI. **Production of  $\alpha$ -Amylase from Haloarcula hispanica 2TK2 Strain: Optimization of the Parameters That Effecting Activity**  
Erdağı A. N., Attar A., Elalmış Y., Yücel S., Birbir M.  
Advanced Science Letters, no.19, pp.3551-3555, 2013 (Peer-Reviewed Journal)
- VII. **Amorphous Silica from Rice Hull Ash as a Filler Material for Dental Composites**  
Elalmış Y., Yücel S., Aydın İ., Tekerek B. S.  
Advanced Science Letters, no.19, pp.3647-3651, 2013 (Peer-Reviewed Journal)
- VIII. **Thermal Stabilization of Horseradish Peroxidase by Covalent Conjugation with Dextran**  
Altıkatoğlu Yapaöz M., Elalmış Y., Ariöz C., Kuzu H.  
Sigma Mühendislik ve Fen Bilimleri Dergisi-Sigma Journal of Engineering and Natural Sciences, vol.27, no.4, pp.216-225, 2009 (Peer-Reviewed Journal)

## Books

- I. **Biyomalzeme Karakterizasyonları-2**  
Elalmış Y., Tiryaki E., Yapıcı E., Karakuzu İkizler B., Acar T., Kantürk Figen A., Yücel S.  
in: Biyomalzemeler, Sevil Yücel, Pınar Terzioğlu, İmran Göker, Editor, Nobel Yayın Dağıtım, Ankara, pp.117-176, 2022
- II. **Biyomalzeme Karakterizasyonları-1**  
Elalmış Y., Özel C., Tiryaki E., Altan D., Yücel S.  
in: Biyomalzemeler, Sevil Yücel, Pınar Terzioğlu, İmran Göker, Editor, Nobel Yayın Dağıtım, Ankara, pp.69-116, 2022
- III. **Proteinler ve Protein-Yüzey Etkileşimleri**  
Altıkatoğlu Yapaöz M., Elalmış Y.  
in: Biyomalzemeler, Sevil Yücel, Pınar Terzioğlu, İmran Göker, Editor, Nobel Yayınevi, Ankara, pp.209-244, 2022
- IV. **Dextran-based micro- and nanobiomaterials for drug delivery and biomedical applications**  
Elalmış Y., Tiryaki E., Karakuzu İkizler B., Yücel S.  
in: Micro- and Nanoengineered Gum-Based Biomaterials for Drug Delivery and Biomedical Applications, Sougata Jana, Subrata Jana, Editor, Elsevier Science, Oxford/Amsterdam, Amsterdam, pp.303-332, 2022
- V. **Colorimetric and Fluorometric Sensor Arrays**  
Kantürk Figen A., Elalmış Y., Coşkun Filiz B.  
in: Toxic Gas Sensors and Biosensors, Inamuddin, Tauseef Ahmad Rangreez, Mohd Imran Ahamed, Rajender Boddula, Editor, Materials Research Foundations, Pennsylvania, pp.220-244, 2021
- VI. **The Role of Matrix Metalloproteinases in Bone Tissue**  
Elalmış Y., Özel C., Keçeciler C., Altan D., Tiryaki E., Özarslan A. C., Tekerek B. S., Yücel S.  
in: A Closer Look at Metalloproteinases, Lena Goodwin, Editor, NOVA Science Publishers Inc., New-York, pp.153-249, 2019

## Papers Published in Refereed Scientific Meetings

- I. **PRELIMINARY STUDY ON THE DEVELOPMENT AND CHARACTERIZATION OF ANTIBACTERIAL AGENT LOADED DEXTRAN-BASED NANOFIBER MATERIALS AS WOUND DRESSING**  
Demir H., Elalmış Y., Coşkun Filiz B., Kantürk Figen A.  
3. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 11 - 12 December 2022, pp.1716-1717
- II. **Aktif Karbon Temelli Manyetik Kompozitlerin Üretimi ve Fenol Gideriminde Kullanımın İncelenmesi**  
Çilingiryan T., Kantürk Figen A., Elalmış Y.  
33. ULUSAL KİMYA KONGRESİ, Tekirdağ, Turkey, 7 - 09 October 2021, pp.201
- III. **Antibacterial activity of zinc incorporated silica aerogels against Escherichia coli**  
Elalmış Y.  
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 - 18 December 2020, pp.105
- IV. **Development of Bromelain Entrapped Dextran Hydrogels as Wound Dressing Materials**  
Demir H., Elalmış Y., Topuzoğulları M.  
II. Uluslararası Enzim ve Biyoproses Günleri – EBDays2020, Kocaeli, Turkey, 1 - 03 September 2020, pp.35
- V. **Dextran Aldehyde Modified Silica Aerogels: Colon Targeted Drug Delivery Systems**  
Yücel S., Tiryaki E., Karakuzu İkizler B., Elalmış Y.  
International Conference on Aerogels for Biomedical and Environmental Applications (AEROGELS2020), A-Coruna, Spain, 18 - 20 February 2020, pp.37-38
- VI. **Production and Evaluation of Zn-Doped Silica Aerogels for Biomedical Applications**  
Elalmış Y., Tiryaki E., Yücel S.  
International Conference on Aerogels for Biomedical and Environmental Applications (AEROGELS2020), A-Coruna, Spain, 18 - 20 February 2020, pp.189-190
- VII. **FABRICATION AND CHARACTERIZATION OF PVA-GELATIN NANOCOMPOSITE FIBERS**  
Altan D., Keçeciler C., Elalmış Y., Bülbül E., Yücel S.

5. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 21 - 22 December 2019, pp.1216-1221
- VIII. **Gümüş Nanoparçacık İçeren Biyonompozit Yerinde Sentezi ve Karakterizasyonu**  
Özel C., Keçeciler C., Elalmış Y., Karakuzu İkizler B., Yücel S.  
23. Biyomedikal bilim ve Teknoloji Sempozyumu (BİOMED2018-TR), İstanbul, Turkey, 15 - 16 December 2018, pp.141
- IX. **The Use of L-Ascorbic Acid Containing Dextran Coated Silica Aerogel in Controlled Drug Targeting Systems**  
Özel C., Keçeciler C., Tiryaki E., Değermenci A., Elalmış Y., Karakuzu İkizler B., Yücel S.  
International IVEK BIO Congress, İstanbul, Turkey, 26 - 28 November 2018, pp.119-122
- X. **Gümüş Nanoparçacık İçeren Hidrojel Kompozit Üriner Kateterler**  
Özel C., Keçeciler C., Karakuzu İkizler B., Elalmış Y., Yücel S.  
5. Ulusal Biyomalzeme Günleri, İstanbul, Turkey, 22 October 2018, pp.32
- XI. **PRODUCTION AND CHARACTERIZATION OF METAL DOPED SILICA AEROGELS**  
Elek M., Tiryaki E., Keçeciler C., Elalmış Y., Yücel S.  
KOMPEGE 2018-IV. International Composite Material Symposium 2018, İzmir, Turkey, 6 - 09 October 2018, pp.160
- XII. **Structural Characterization and In Vitro Bioactivity of Titanium-Doped 45S5 Bioglasses**  
Yücel S., Karakuzu İkizler B., Terzioğlu P., Başaran Elalmış Y.  
4th International Conference on New Trends in Chemistry (ICNTC 2018), Sankt-Peterburg, Russia, 11 May 2018, pp.1
- XIII. **Magnesium and Aluminum Incorporated Bioactive Glass Preparation from Rice Hull Silica**  
Karakuzu İkizler B., Terzioğlu P., ELALMIŞ Y., Tekerek B. S., YÜCEL S.  
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 March 2018, pp.1
- XIV. **Production and in vitro Cell Study of Sr-Cu Dopped Bioactive Glass on Biosilica**  
Çevlik C. B., Özarslan A. C., Elalmış Y., Yücel S.  
International Materials Technologies and Metallurgy Conference 2017 (MTM 2017) in honor of Erdem Demirkesen, İstanbul, Turkey, 26 October 2017, pp.224-226
- XV. **Effect of Silane Treatment on Mechanical Properties and Bioactivity Behaviour Of Alumina Doped Bioactive Glass Containing Experimental Dental Composites**  
Elalmış Y., İkizler B. K., Yücel S., Aydın İ.  
International Materials Technologies and Metallurgy Conference 2017 (MTM 2017) in honor of Erdem Demirkesen, İstanbul, Turkey, 26 - 27 October 2017, pp.106-109
- XVI. **3-(aminopropyl) trietoxysilane modification of silica nanoparticles for 5-fluorouracil delivery**  
Tiryaki E., Elalmış Y., Yücel S.  
International Materials Technologies and Metallurgy Conference 2017 (MTM 2017) in honor of Erdem Demirkesen, İstanbul, Turkey, 26 October 2017
- XVII. **Production of Omega-3 Fatty Acids EPA and DHA from Microalgae**  
Özarslan A. C., Yücel S., Elalmış Y.  
2017 AOCS Annual Meeting and Industry Showcases, Florida, United States Of America, 30 April 2017, pp.44
- XVIII. **Development of Dextran-Coated Silica Aerogels as a Drug Release System for Colon Cancer Treatment**  
Tiryaki E., Elalmış Y., Yücel S.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 April 2017, pp.1061
- XIX. **Investigaton of L-Ascorbic Acid release from Hexamethyl Disilazane (HMDZ) modifed and unmodified silica aerogels: Efect of hydrophobicity**  
Özel C., Tiryaki E., Elalmış Y., Yücel S.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 April 2017, pp.335
- XX. **Potansiyel İlaç Taşıma Sistemleri: Nano Yapılı Silika Aerojeller**  
Tiryaki E., ELALMIŞ Y., YÜCEL S.  
V. Ulusal Nanoteknoloji Kongresi, İstanbul, Turkey, 09 March 2017

- XXI. **Evaluation of silica aerogel with amine functionalization for drug delivery system**  
Tiryaki E., Elalmış Y., Yücel S.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.2922
- XXII. **Production of bioactive glass scaffolds for bone tissue engineering**  
Karakuzu B., Özarslan A. C., Elalmış Y., Yücel S.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.2875
- XXIII. **Synthesis and characterization of hydrophobic silica aerogel with different silica sources and surface modification agents**  
Temel T. M., Karakuzu B., Elalmış Y., Terzioğlu P., Yücel S.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.2903
- XXIV. **Removal of Malachite Green from Aqueous Solutions by a Low Cost Adsorbent from Agricultural Waste Material**  
Elalmış Y., Temel T. M., Karakuzu B., Yücel S.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.2907
- XXV. **Porous scaffold design from polymer-bioactive glass composite for bone**  
Özarslan A. C., Karakuzu B., Elalmış Y., Yücel S.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.2965
- XXVI. **Effect of Oil Types and Fatty Acids as Carbon Source on Growth of Extremophilic Archaea for Lipase Production**  
Yücel S., Attar A., Elalmış Y.  
14th Euro Fed Lipid Congress Fats, Oils and Lipids, Ghent, Belgium, 18 September 2016, pp.263
- XXVII. **Üriner Sistemlerde Kullanılacak Kateterlerde Antibakteriyel ve Biyouyumlu Polimerik Kaplama Geliştirilmesi**  
İsmik D., Yücel S., Elalmış Y.  
12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 August 2016
- XXVIII. **Polietilen Glikol (PEG) ile Modifiye Edilmiş Glukoz Oksidazın Termal Stabilizasyonu**  
Vardar G., Altıkatoğlu Yapaöz M., Elalmış Y., Tavukçuoğlu Ö., Işıldak İ.  
10. Ulusal Afinitive Teknikleri Kongresi, Balıkesir, Turkey, 26 May 2016
- XXIX. **Polietilen Glikol PEG ile Modifiye Edilmiş Glukoz Oksidazın Termal Stabilizasyonu**  
vardar g., ALTIKATOĞLU YAPAÖZ M., ELALMIŞ Y., TAVUKÇUOĞLU Ö., IŞILDAK İ.  
10.Ulusal Afinitive Teknikleri Kongresi, Turkey, 26 - 28 May 2016
- XXX. **Effect of Production Parameters on Nanoporous Biogenic Silica Aerogel**  
Temel T. M., Yücel S., Karakuzu B., Elalmış Y., Terzioğlu P.  
NanoWorld Conference-2016, Massachusetts, United States Of America, 04 April 2016, pp.56
- XXXI. **Effect of Nanoporous Silica Aerogel Structure for Vitamin C Release**  
Tiryaki E., Cernencu A., Elalmış Y., Karakuzu B., Yücel S.  
NanoWorld Conference-2016, Massachusetts, United States Of America, 04 April 2016, pp.55
- XXXII. **Mesoporous Silica Nanoparticles for Controlled Release of Vitamin C**  
Tiryaki E., Titirinli M., ELALMIŞ Y., KARAKUZU B., YÜCEL S.  
2. İVEK Uluslararası İlaç Ve Eczacılık Kongresi, İstanbul, Turkey, 27 November 2015, pp.139
- XXXIII. **Lipase Enzyme Production from Halophilic Microorganisms**  
Yıldırım G., Temel T. M., Elalmış Y., Yücel S., Attar A.  
13th Euro Fed Lipid Congress, Florence, Italy, 27 - 30 September 2015, pp.63
- XXXIV. **Application of Mesoporous Silica Nanoparticle at Drug Delivery System**  
Titirinli M., Yücel S., Karakuzu B., Elalmış Y.  
SB3C Summer Biomechanics, Bioengineering and Biotransport Conference, Utah, United States Of America, 17 June

2015, pp.1392

- XXXV. **Production and Characterization of Silica Aerogels from Rice Hull Ash Silica**  
Temel T. M., YÜCEL S., ELALMIŞ Y., Karakuzu B.  
CHEMTECH '14 / Chemical Engineering and Technologies Conference, İstanbul, Turkey, 23 October 2014, pp.0-4
- XXXVI. **Effects of Different Growth Medium on Microalgae Metabolite Production**  
YÜCEL S., BOĞOÇLU M. E., TURHAN İ. M., ELALMIŞ Y.  
12th Euro Fed Lipid Congress, Montpellier, France, 14 October 2014
- XXXVII. **Preparation and In Vitro Bioactivity Of Magnesium and Strontium Doped Rice Hull Ash Silica Based Melt Derived Bioglasses**  
Yücel S., Terzioğlu P., Konukoğlu Z. A., Elalmış Y., Tekerek B.  
SERES'14 III. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, Eskişehir, Turkey, 15 October 2014
- XXXVIII. **Cereal Wastes as An Alternative Low Cost Adsorbents**  
Terzioğlu P., Elalmış Y., Yücel S., Karakuzu B., Metin M.  
EURASIA 2014 Waste Management Symposium, İstanbul, Turkey, 28 April 2014, pp.0-10
- XXXIX. **Biogenic Silica Materials with Different Surface Area from Rice Husk Ash as Inorganic Filler for Dental Composites**  
Elalmış Y., Yücel S., Aydın İ.  
International Porous and Powder Materials Symposium and Exhibition-2013, İzmir, Turkey, 3 - 06 September 2013, pp.206
- XL. **Characterization of water-soluble conjugates of enzymes with dextran**  
Altıkatoğlu Yapaöz M., Elalmış Y., Kuzu H.  
35th FEBS Congress, Gothenburg, Sweden, 26 June 2010, pp.248
- XLI. **Miyeloperoksidazın Kemoterapide Kullanılan Doksorubisine Etkisinin İncelenmesi**  
Elalmış Y., Kuzu H.  
XXII. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kkct), 06 October 2008, pp.53
- XLII. **A Study for Determining the Direct Effect of Myeloperoxidase Enzyme On Doxorubicin**  
Elalmış Y., Kuzu H.  
33rd FEBS Congress, Athens, Greece, 28 June 2008, pp.392
- XLIII. **A Study For Determining The Direct Effect Of Myeloperoxidase Enzyme On Doxorubicin in the Presence of Free Radical Trap (5,5- Dimethyl -1-Pyrroline N-Oxide)**  
Elalmış Y., Özdemir Z. Ö., Kuzu H.  
14th International Biomedical Science and Technology Symposium (BIOMED), Muğla, Turkey, 03 May 2008, pp.131-133
- XLIV. **Synthesis and Activity Results of Glucose Oxidase-Dextran Conjugates**  
Altıkatoğlu Yapaöz M., Elalmış Y., Ariöz C., Kuzu H.  
4th European Symposium on Biopolymers, İzmir, Turkey, 02 October 2007, pp.75
- XLV. **Enzyme-Water Soluble Polymer Conjugate Systems and Their Thermal Resistance**  
Altıkatoğlu Yapaöz M., Ariöz C., Elalmış Y., Kuzu H.  
4th European Symposium on Biopolymers, İzmir, Turkey, 02 October 2007, pp.71
- XLVI. **Enzimlerin Farklı Boyutlarda Dekstran Türevleri ile Modifikasyonu**  
Ariöz C., Altıkatoğlu Yapaöz M., Elalmış Y., Kuzu H.  
21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 August 2007, pp.6
- XLVII. **Glukoz Oksidaz-Dekstran Konjugatlarının Sentezi ve Stabilitate Yönünden Değerlendirilmesi**  
Altıkatoğlu Yapaöz M., Elalmış Y., Ariöz C., Kuzu H.  
21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 August 2007, pp.6
- XLVIII. **Thermal stability of HRP-dextran conjugates**  
Altıkatoğlu Yapaöz M., Ariöz C., Elalmış Y., Kuzu H.  
32nd FEBS Congress, Vienna, Austria, 07 July 2007, pp.278
- XLIX. **Activity determination of HRP-Dextran conjugates in different pH values**  
Elalmış Y., Altıkatoğlu Yapaöz M., Ariöz C., Sarıçay Y., Kuzu H.



32nd FEBS Congress, Vienna, Austria, 07 July 2007, pp.278

**L. Horseradish Peroksidaz (HRP)-Dekstran Sülfat Konjugatları ve Karakterizasyonu**

Altıkatoğlu Yapaöz M., Ariöz C., Elalmış Y., Topuzoğulları M., Kılınc Y., Kuzu H.

XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 04 September 2006, pp.57

**LI. Dextran- Enzyme Conjugates and Their Characteristics**

Altıkatoğlu Yapaöz M., Öztolan Ö., Arslan A., Çelebi M., Ariöz C., Elalmış Y., Kuzu H., Akdeste M. M.

3rd International Congress on Biocatalysis (Biocat2006), Hamburg, Germany, 03 September 2006, pp.207

**LII. The complexes of enzymes with water soluble polymers**

Kuzu H., Altıkatoğlu Yapaöz M., Öztolan Ö., Arslan A., Çelebi M., Ariöz C., Elalmış Y.

31st FEBS Congress, İstanbul, Turkey, 24 June 2006, pp.363

## Supported Projects

KUÇAK M., ELALMIŞ Y., Project Supported by Higher Education Institutions, Dermatolojik uygulamalara yönelik retinol C vitamini yüklü kitosan esaslı biyopolimerik film formülasyonlarının geliştirilmesi ve in vitro karakterizasyonu, 2024 - 2025

Akıllı K., Elalmış Y., TUBITAK Project, Niyobyum Katkılı Mezogözenekli Silika Nanoparçacık Sentezi, Karakterizasyonu ve In Vitro Testleri, 2023 - 2024

COŞKUNER FİLİZ B., ALTİKATOĞLU YAPAÖZ M., ELALMIŞ Y., Project Supported by Higher Education Institutions, Su Bazlı Duvar Boyaları için Antimikrobiyal Özellikli Bor-Krom Katkı Maddelerinin Sol-Gel/Nitrat Yakma Yöntemiyle Geliştirilmesi, 2022 - 2024

ELALMIŞ Y., Demir H., COŞKUNER FİLİZ B., KAHRAMAN E., Project Supported by Higher Education Institutions, Bromelain İçeren Dekstran Esaslı Nanofiber Malzemelerin Geliştirilmesi Karakterizasyonu ve Yara Örtü Malzemesi Potansiyellerinin Değerlendirilmesi, 2022 - 2024

Elalmış Y., Yücel S., Aydın İ., Altıkatoğlu Yapaöz M., Kılıç Depren S., Kınay Taran P., TUBITAK Project, TÜBİTAK 1001 (122M030) - Remineralizasyon ve Biyoaktivite Özelliklerine Sahip Deneysel Rezin Dental Kompozitlerin Niyobyum, Stronsiyum ve Kalsiyum Florür İçerikli Özgün Bir S53P4 Tabanlı Biyoaktif Cam Katkısı ile Üretimi ve Karakterizasyonu, 2022 - 2024

Yüzüğüllü Karakuş Y., Işık S., Barak N., Yücel S., Elalmış Y., Project Supported by Higher Education Institutions, Scytalidium thermophilum (Humicola insolens tip kültürü) hücre dışı lakkaz enziminin üretimi saflaştırılması, immobilizasyonu ve boyar madde gideriminde kullanımı, 2021 - 2023

ELALMIŞ Y., DİKER N., ALTAN D., EMİR C., YÜCEL S., Project Supported by Higher Education Institutions, Farklı Biyoaktif Camlar İçeren Doğal ve Sentetik Polimerik Dental Membranların Elektroçirgeme Yöntemi ile Üretimi Karakterizasyonu In Vitro ve In Vivo Analizleri, 2021 - 2023

COŞKUNER FİLİZ B., KANTÜRK FİGEN A., ELALMIŞ Y., BEKTAŞ İ. S., Project Supported by Higher Education Institutions, Enzim immobilizasyonu amacıyla çapraz bağlanmış KitosanPVA nanofiberlerin hazırlanması ve taşınabilir test amaçlı uygulamalarındaki kullanılabilirliğinin değerlendirilmesi, 2020 - 2022

Yücel S., Elalmış Y., Karakuzu-İkizler B., Yapıcı E., Özel C., Emir C., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Tarımsal Atıklardan Elde Edilen Nanogözenekli Sıhka Aerojellerin Gıda Katkı Maddesi Olarak Değerlendirilmesi için Optimizasyon Çalışmalarının ve in vitro Hücre Testlerinin Yapılması, 2017 - 2021

YÜCEL S., ÖZARSLAN A. C., ELALMIŞ Y., Project Supported by Higher Education Institutions, ENJEKTE EDİLEBİLİR KOMPOZİT KEMİK DOKU DESTEK MALZEMESİ ÜRETİMİ VE IN VITRO ÇALIŞMALARI, 2017 - 2019

YÜCEL S., TİRYAKİ E., ELALMIŞ Y., Project Supported by Higher Education Institutions, DEKSTRAN KAPLI SİLİKA AEROJELLERİN KOLON KANSERİ TEDAVİSİ İÇİN İLAÇ SALIM SİSTEMİ OLARAK GELİŞTİRİLMESİ, 2016 - 2017

ELALMIŞ Y., KARAKUZU B., YÜCEL S., KILIÇ DEPREN S., AYDIN İ., Project Supported by Higher Education Institutions, Üretilen Alüminyum Katkılı Biyoaktif Camların İlavesi ile Hazırlanan Rezin Bazlı Dental Kompozitlerin Biyoaktivite, İyon Salımı ve Mekanik Özelliklerinin İncelenmesi, 2016 - 2017

YÜCEL S., ELALMIŞ Y., Project Supported by Higher Education Institutions, Nanogözenekli Aerojellerin Biyosilika Kullanılarak Farklı pH, Asit, Yaşlandırma Koşullarında Üretimi ve Ayçiçek Yağında Adsorpsiyon Performansının İncelenmesi, 2015 - 2016

YÜCEL S., ELALMIŞ Y., Project Supported by Higher Education Institutions, CHLORELLA MİKROALG TÜRLERİNE BACA GAZININ ETKİSİ VE ÜRETİLEN MİKROALGLERİN BİYODİZEL OLARAK KULLANIMI, 2015 - 2016

YÜCEL S., ELALMIŞ Y., Project Supported by Higher Education Institutions, Dental Kompozitlerde Pirinç Kabuğu Külünden Üretilen Silika Tozlarının Kullanılması, 2012 - 2015

YÜCEL S., ELALMIŞ Y., Project Supported by Higher Education Institutions, Pirinç Kabuğu Külünden Elde Edilen Silikadan Mg, Al, Sr İlaveli Biyoaktif Camların Üretimi Ve Osteosit Hücreleri Üzerine Etkisi, 2013 - 2014

YÜCEL S., ELALMIŞ Y., Project Supported by Higher Education Institutions, Bis-GMA Esaslı Dental Kompozitlerin Fotopolimerizasyonu Esnasında Oluşan Yapısal Değişikliklerin Matematiksel Modellenmesi, 2012 - 2014

Yücel S., Elalmış Y., Attar A., Project Supported by Higher Education Institutions, Arkeal Kaynaklı  $\alpha$ -Amilaz ve Selülaz Enzimlerinin Üretimi ve Enzim Aktivitelerinin Belirlenmesi, 2011 - 2013

YÜCEL S., ELALMIŞ Y., ATTAR A., Project Supported by Higher Education Institutions, Arkeal Kaynaklı  $\alpha$ -Amilaz ve Selülaz Enzimlerinin Üretimi ve Enzim Aktivitelerinin Belirlenmesi, 2011 - 2013

Elalmış Y., Altıkatoğlu Yapaöz M., KILINÇ Y., Project Supported by Higher Education Institutions, Tıbbi Biyosensör Üretimi, 2007 - 2010

ÇAKIR KOÇ R., ELALMIŞ Y., KILINÇ Y., KIZILBEY K., MANSUROĞLU B., DOĞRUYOL S., ALTİKATOĞLU YAPAÖZ M., MOLLAOĞLU ALTUNER H., DERMAN S., YÜKSELİCİ M. H., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Biyomedikal Malzemeler ve Yapay Dokular, 2005 - 2010

## Patent

Yücel S., Karakuzu İkizler B., Tiryaki E., Elalmış Y., İLAÇ TAŞIMA SİSTEMİ OLARAK KULLANILAN BİR DEKSTRAN KAPLI SİLİKA AEROJEL VE BİR DEKSTRAN KAPLI SİLİKA AEROJEL ÜRETİM YÖNTEM, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2019 11602 , Standard Registration, 2021

## Metrics

Publication: 87  
Citation (WoS): 140  
Citation (Scopus): 300  
H-Index (WoS): 7  
H-Index (Scopus): 10

## Congress and Symposium Activities

Türk Elektron Mikroskopisi Derneği 2009-2010 Bilimsel Etkinlikleri, Invited Speaker, İstanbul, Turkey, 2010