

Assoc. Prof. İSMAİL ALPER
İŞOĞLU



Personal Information

Office Phone: [+90 352 224 8800](tel:+903522248800)

Email: alper.isoglu@agu.edu.tr

Web: <https://avesis.agu.edu.tr/alper.isoglu>

Address: Abdullah Gül Üniversitesi Sumer Kampüsü Kocasinan Kayseri

International Researcher IDs

ScholarID: BzvemX0AAAAJ

ORCID: 0000-0001-6428-4207

Yoksis Researcher ID: 60721

Education Information

Post Doctorate, University of Michigan, Biomedical Engineering, United States Of America 2014 - 2015

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik, Turkey 2004 - 2009

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2001 - 2004

Undergraduate, Ankara University, Fen Fakültesi, Kimya Mühendisliği, Turkey 1995 - 2000

Foreign Languages

German, C1 Advanced

English, C1 Advanced

Dissertations

Doctorate, Kemik doku muhendisligi için elektro-eğrilmis poli(e-kaprolakton) membran esaslı doku iskeleleri, Hacettepe Üniversitesi, Fen Bil, Biyomühendislik, 2009

Postgraduate, Kurutulmuş şeker pancarı kuşspesine gemazol turkuaz blue-G reaktif boyarmaddesi ve bakır(II) iyonlarının ikili ve tekli adsorpsiyonunda kullanılabilirliğinin araştırılması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2004

Research Areas

Chemical Engineering and Technology, Biotechnology, Tissue Engineering, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2021 - Continues

Assistant Professor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2018 - 2021

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2011 - 2018

Academic and Administrative Experience

Rector's Advisor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2021 - Continues
Öğrenci Faaliyetleri Koordinatörü (Öğrenci Dekanı), Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2021 - Continues

Vice Dean, Abdullah Gul University, Yaşam ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2018 - Continues

Assistant Director of the Institute, Abdullah Gul University, Fen Bilimleri Enstitüsü, 2020 - 2021

Courses

Fluid Dynamics in Bioengineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation and Characterization of Viburnum Opulus Containing Electrospun Membranes as Antibacterial Wound Dressing**
Yuruk A., DİNÇER İŞOĞLU S., İŞOĞLU İ. A.
Fibers and Polymers, vol.24, no.11, pp.3761-3774, 2023 (SCI-Expanded)
- II. **HER2-Specific Peptide (LTVSPWY) and Antibody (Herceptin) Targeted Core Cross-Linked Micelles for Breast Cancer: A Comparative Study**
BAYRAM N. N., Ulu G. T., Abdulhadi N. A., Gürdap S., İŞOĞLU İ. A., Baran Y., DİNÇER İŞOĞLU S.
Pharmaceutics, vol.15, no.3, 2023 (SCI-Expanded)
- III. **RAFT-synthesized POEGMA-b-P4VP block copolymers: preparation of nanosized micelles for anticancer drug release**
BAYRAM N. N., TOPUZOĞULLARI M., İŞOĞLU İ. A., DİNÇER İŞOĞLU S.
POLYMER BULLETIN, vol.79, no.11, pp.9575-9588, 2022 (SCI-Expanded)
- IV. **Sulfobetaine-Based Homo- and Copolymers by RAFT: Cross-Linked Micelles and Aqueous Solution Properties**
GÜRDAP S., BAYRAM N. N., İŞOĞLU İ. A., DİNÇER İŞOĞLU S.
ACS APPLIED POLYMER MATERIALS, vol.4, no.9, pp.6303-6311, 2022 (SCI-Expanded)
- V. **Investigations of strain rate, size, and crack length effects on the mechanical response of polycaprolactone electrospun membranes**
Bayram F. C., KAPÇI M. F., Yuruk A., İŞOĞLU İ. A., BAL B.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.235, no.6, pp.1957-1970, 2021 (SCI-Expanded)
- VI. **Preparation of antibacterial electrospun poly(D, L-lactide-co-glycolide)/gelatin blend membranes containing Hypericum capitatum var. capitatum**
AKŞİT N. N., GÜRDAP S., DİNÇER İŞOĞLU S., İŞOĞLU İ. A.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.70, no.11, pp.797-809, 2021 (SCI-Expanded)
- VII. **Pericardial fluid and vascular tissue engineering: A preliminary study**
SÖNMEZER D., LATİFOĞLU F., TOPRAK G., DÜZLER A., İŞOĞLU İ. A.
BIO-MEDICAL MATERIALS AND ENGINEERING, vol.32, no.2, pp.101-113, 2021 (SCI-Expanded)
- VIII. **Centella Asiatica Extract Containing Bilayered Electrospun Wound Dressing**
İŞOĞLU İ. A., Koc N.
FIBERS AND POLYMERS, vol.21, no.7, pp.1453-1465, 2020 (SCI-Expanded)
- IX. **On the detailed mechanical response investigation of PHBV/PCL and PHBV/PLGA electrospun mats**
BAL B., Tugluca I. B., Koc N., İŞOĞLU İ. A.
MATERIALS RESEARCH EXPRESS, vol.6, no.6, 2019 (SCI-Expanded)
- X. **Stem cells combined 3D electrospun nanofibrous and macrochannelled matrices: a preliminary approach in repair of rat cranial bones**

- İŞOĞLU İ. A., Bolgen N., KORKUSUZ P., VARGEL İ., ÇELİK H. H., Kilic E., Guzel E., ÇAVUŞOĞLU T., Uckan D., Piskin E. ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, no.1, pp.1094-1100, 2019 (SCI-Expanded)
- XI. **Antibacterial Bilayered Skin Patches Made of HPMA and Quaternary Poly(4-vinyl pyridine)**
İŞOĞLU İ. A., Demirkan C., Seker M. G., TUZLAKOĞLU K., DİNÇER İŞOĞLU S.
FIBERS AND POLYMERS, vol.19, no.11, pp.2229-2236, 2018 (SCI-Expanded)
- XII. **Advances in Micelle-based Drug Delivery: Cross-linked Systems**
İŞOĞLU İ. A., Ozsoy Y., Isoglu S.
CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.17, no.13, pp.1469-1489, 2017 (SCI-Expanded)
- XIII. **RAFT-mediated synthesis of poly(N-(2-hydroxypropyl)methacrylamide-b-4-vinylpyridine) by conventional and microwave heating**
Ozdemir Z., TOPUZOĞULLARI M., İŞOĞLU İ. A., Dincer S.
POLYMER BULLETIN, vol.70, no.10, pp.2857-2872, 2013 (SCI-Expanded)
- XIV. **In vivo performance of simvastatin-loaded electrospun spiral-wound polycaprolactone scaffolds in reconstruction of cranial bone defects in the rat model**
Piskin E., Isoglu I. A., Bolgen N., Vargel I., GRIFFITHS S., Cavusoglu T., KORKUSUZ P., Guzel E., CARTMELL S.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, no.4, pp.1137-1151, 2009 (SCI-Expanded)
- XV. **Electrospun matrices made of poly(alpha-hydroxy acids) for medical use**
PISKIN E., BOELGEN N., EGRI S., Isoglu I. A.
NANOMEDICINE, vol.2, no.4, pp.441-457, 2007 (SCI-Expanded)
- XVI. **Use of dried sugar beet pulp for binary biosorption of Gemazol Turquoise Blue-G reactive dye and copper(H) ions: Equilibrium modeling**
AKSU Z., Isoglu I. A.
CHEMICAL ENGINEERING JOURNAL, vol.127, pp.177-188, 2007 (SCI-Expanded)
- XVII. **Us of agricultural waste sugar beet pulp for the removal of Gemazol turquoise blue-G reactive dye from aqueous solution**
AKSU Z., Isoglu I. A.
JOURNAL OF HAZARDOUS MATERIALS, vol.137, no.1, pp.418-430, 2006 (SCI-Expanded)
- XVIII. **Removal of copper(II) ions from aqueous solution by biosorption onto agricultural waste sugar beet pulp**
AKSU Z., Isoglu I.
PROCESS BIOCHEMISTRY, vol.40, no.9, pp.3031-3044, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the Interaction of Adipose-Derived Mesenchymal Stem Cells with ϵ -Polycaprolactone and Egg White Scaffolds**
Oztel O. N., YILMAZ H. D., İŞOĞLU İ. A., Allahverdiyev A.
Gazi University Journal of Science, vol.36, no.4, pp.1434-1447, 2023 (ESCI)
- II. **Yara Örtü Malzemesi Olarak Elektroeğrilmış PCL/PHBV Membranların Hazırlanması ve Karakterizasyonu**
İŞOĞLU İ. A.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.3, pp.1029-1044, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Biyomalzemeler**
İŞOĞLU İ. A., DİNÇER İŞOĞLU S., Albayrak A., Memiş B., KOCAKULAK M.
in: Biyomedikal Mühendisliğin Temelleri, Musa Hakan Asyalı, Bülent Yılmaz, Sadık Kara, Editor, Nobel, pp.395-450, 2018

II. Kanserde İlaç Hedefleme

İŞOĞLU İ. A., DİNÇER İŞOĞLU S.

in: Kanser Moleküler Biyolojisi, Yusuf Baran, Yağmur Kiraz, Gizem Tuğçe Ulu, Editor, Kısayol Yayıncılık, pp.443-453, 2018

III. Biyomalzemeler

İŞOĞLU İ. A., DİNÇER İŞOĞLU S., Kocakulak M.

in: Biyomedikal Mühendisliğin Temelleri, M.H. Asyalı, S. Kara, B. Yılmaz, Editor, Nobel Yayın Dağıtım, İstanbul, pp.1-782, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation and Characterization of a Novel Anti-Microbial Wound Dressing**
Zora Tarhan S., Dinçer İšoğlu S., İšoğlu İ. A.
17th Nanoscience and Nanotechnology Conference (NANOTR-17), İzmir, Turkey, 27 - 29 August 2023, pp.32
- II. **A Novel Antibacterial Polymeric Wound Dressing Membranes for Wound Healing Applications**
Yürük A., Dinçer İšoğlu S., İšoğlu İ. A.
17th Nanoscience and Nanotechnology Conference (NANOTR-17), İzmir, Turkey, 27 - 29 August 2023, pp.104
- III. **Peptide targeted core cross-linked micelles for dox delivery to HER-2 expressing cancer cells**
Bayram N. N., Ulu G. T., İšoğlu İ. A., Baran Y., Dinçer İšoğlu S.
TERMIS 6th World Congress, 15 November - 19 December 2021, pp.1745
- IV. **Polysulfobetaine-based Core Cross-linked Micelles: Synthesis by RAFT Polymerization and Solution Properties**
Gürdap S., Bayram N. N., İšoğlu İ. A., Dinçer İšoğlu S.
UPAC-MACRO2020+ The 48th World Polymer Congress, Jeju-Si, South Korea, 16 - 21 May 2021
- V. **Fabrication and Characterization of Electrospun Poly(sulfobetaine methacrylate)/Poly(caprolactone) Blend Membranes As Wound Dressing Material**
İŞOĞLU İ. A.
V. International Congress on Natural and Health Sciences (ICNHS-2019), Adana, Turkey, 13 - 15 December 2019, pp.592
- VI. **Preparation of Antibacterial Electrospun Poly (D,L-lactide-co-glycolide)/Gelatin Blend Membranes Containing Hypericum capitatum var. capitatum**
AKŞİT N. N., GÜRDAP S., DİNÇER İŞOĞLU S., İŞOĞLU İ. A.
The 15th Nanoscience and Nanotechnology Conference, 3 - 06 November 2019, pp.54
- VII. **A Biomimetic Approach for Small Diameter Vessels: Bilayered Vascular Grafts Made of Alginate and PCL**
GÜRDAP S., AKŞİT N. N., İŞOĞLU İ. A., DİNÇER İŞOĞLU S.
ESB2019 The 30th Annual Conference of The European Society for Biomaterials, Dresden, Germany, 9 - 13 September 2019, pp.1192-1193
- VIII. **Synthesis and Characterization of 4VP/SPMA cryogels**
DURUKAN YÜRÜK A., İŞOĞLU İ. A.
The 44th FEBS Congress, Krakow, Poland, 6 - 11 July 2019, pp.214
- IX. **Cell Isolating from Bovine Pericardial Fluid and Culturing for Next Tissue Engineering Applications**
LATİFOĞLU F., SÖNMEZER D., TOPRAK G., DÜZLER A., İŞOĞLU İ. A., KAAAN CEYLAN D.
IConTES 2018: International Conference on Technology, Engineering and Science, 26 - 29 October 2018, vol.4, pp.224-229
- X. **PCL-b-mPEG Block Copolymer Nanocarriers For Anticancer Agent Release**
AKŞİT N. N., TOPUZOĞULLARI M., İŞOĞLU İ. A., EL KHATIB M., DİNÇER İŞOĞLU S.
14th Nanoscience and Nanotechnology Conference, 22 - 25 September 2018, pp.194
- XI. **Highly Porous Sulfopropyl Methacrylate-based Cryogels as Biomaterials**
İŞOĞLU İ. A., YÜRÜK A.

14th Nanoscience and Nanotechnology Conference, 22 - 25 September 2018, pp.167

- XII. **Poly(OEGMA)-b-Poly(4-VP) block copolymer nanocarriers for anticancer agent release**
AKŞİT N. N., TOPUZOĞULLARI M., İŞOĞLU İ. A., EL KHATIB M., DİNÇER İŞOĞLU S.
FEBS OPEN BIO, 7 - 12 July 2018, pp.476
- XIII. **Antibacterial Temporary Skin Patches as Wound Dressings**
İŞOĞLU İ. A., GÜL ŞEKER M., TUZLAKOĞLU K., DİNÇER İŞOĞLU S.
28th European Conference on Biomaterials, 4 - 08 September 2017
- XIV. **The Hydrogen Embrittlement Susceptibility of High Strength Steels**
BAL B., İŞOĞLU İ. A., Koyama M.
Advances in Functional Materials, 14 - 17 August 2017
- XV. **Hücre Bileşeni ve Biyomalzeme ile Vasküler Doku Üretimi**
SÖNMEZER D., LATİFOĞLU F., İŞOĞLU İ. A., DÜZLER A., TOPRAK G., KAAAN CEYLAN D.
Tıp Tekno'16 Tıp Teknolojileri Kongresi, Antalya, Turkey, 27 - 29 October 2016, pp.205-208
- XVI. **Fabrication of Polysulfone PEI SiO₂ Nanofiber Membranes with Enhanced Properties For Water Filtration**
BÜLBÜL E., SAKI S., İŞOĞLU İ. A., UZAL N., ATEŞ N.
PERMEA 2016 - Membrane Science and Technology Conference of Visegrad Countries, Prag, Czech Republic, 15 - 19 May 2016
- XVII. **Investigation of Interaction Between Mesenchymal Stem Cells Poly (?-Caprolactone) and Development of 3-D Cell Culture Model for Cartilage Tissue Engineering**
Toptaş H., Bağırova M., Oztel O., İŞOĞLU İ. A., Allahverdiyev A.
2nd International Congress on Stem Cell and Cellular Therapies, Antalya, Turkey, 15 - 18 October 2015, pp.112
- XVIII. **Poly(HPMA) and Poly(Q4-VP) Based Bilayered Antimicrobial Wound Dressing Materials**
DEMİRKAN C., TUZLAKOĞLU K., GÜL ŞEKER M., İŞOĞLU İ. A., DİNÇER İŞOĞLU S.
20th International Biomedical Science and Technology Symposium, KÖYCEĞİZ, Turkey, 24 - 27 August 2014, pp.47
- XIX. **Preparation and Characterization of HPMA-4-VP Sponge-like Materials**
PALAMUT G., İŞOĞLU İ. A.
European Symposium on Biomaterials and Related Areas (Euro Biomat), Weimar, Germany, 23 - 24 April 2013, pp.132
- XX. **Mesenchymal Stem Cells and Tissue Engineering Scaffold in Cranial Bone Defects**
KORKUSUZ P., VARGEL İ., AYDIN H. M., KARAGÜLLE N., EĞRİ S., İŞOĞLU İ. A., UÇKAN D., ÇAVUŞOĞLU T., GÜZEL MEYDANLI E. E., KILIÇ E., et al.
BIOMED 2010: 16th International Biomedical Science and Technology Symposium, İstanbul, Turkey, 28 September - 02 October 2010, pp.29
- XXI. **Nanofibrous Scaffolds for Repair of Cranial Bone Defects**
İŞOĞLU İ. A., BÖLGEN N., KORKUSUZ P., VARGEL İ., PİŞKİN E.
6th Nanoscience and Nanotechnology Conference, NANOTR-VI, İzmir, Turkey, 15 - 18 June 2010, pp.103
- XXII. **Mesenchymal Cells and Scaffolds for Cranial Bone Defects**
Pişkin E., Korkusuz P., Vargel İ., İŞOĞLU İ. A., Bölgen N., Uçkan D., Çavuşoğlu T., Güzel E., Kılıç E.
8th International Conference on Cell&Stem Cell Engineering, Dublin, Ireland, 11 - 12 June 2010, pp.46
- XXIII. **Kraniyel Kemik Defekti Onarımında Elektrosinning Yöntemi ile Simvastatin Yüklenmiş Polikaprolakton Doku İskeletlerinin Kullanımı**
ÇAVUŞOĞLU T., VARGEL İ., PİŞKİN E., İŞOĞLU İ. A., KARAGÜLLE N., KORKUSUZ P., GÜZEL MEYDANLI E. E., GRIFFITHS S., CARTMELL S.
30. Türk Plastik Rekonstrüktif ve Estetik Cerrahi Ulusal Kongresi, Antalya, Turkey, 15 - 19 October 2008, pp.745-746
- XXIV. **Electrospun spiral-wounded polycaprolactone scaffolds with or without stem cells for cranial bone defects: an animal model**
İŞOĞLU İ. A., BOLGEN N., VARGEL I., CAVUSOGLU T., KORKUSUZ P., GUZEL E., PISKIN E.
Annual Tissue-Engineering-and-Regenerative-Medicine-International-Society-European- Chapter Meeting, Porto, Portugal, 22 - 26 June 2008, vol.14, pp.847

- XXV. **Novel Scaffolds for Tissue Engineering**
PİŞKİN E., KARAGÜLLE N., EĞRİ S., AYDIN H. M., İŞOĞLU İ. A.
Trento Innovation Conferences in Materials Engineering Advances in Polymers, Composites and Biomaterials,
Trento, Italy, 16 - 19 December 2007, pp.35
- XXVI. **Simvastatin releasing novel PCL scaffolds in rat cranium defects**
PISKIN E., Isoglu A., BOLGEN N., GRIFFITHS S., VARGEL I., CAVUSOGLU T., KORKUSUZ P., GUZEL E., CARTMELL S.
Conference of the Tissue-Engineering-and-Regenerative-Medicine-International-Society (TERMIS-EU), London,
Canada, 4 - 07 September 2007, vol.13, pp.1756
- XXVII. **In vivo performance of Simvastatin Releasing Electrospun Polycaprolactone Scaffolds in
Regeneration of Calvarial Bone Defects in a Rat Model**
İŞOĞLU İ. A., KARAGÜLLE N., VARGEL İ., ÇAVUŞOĞLU T., KORKUSUZ P., GRIFFITHS S., CARTMELL S., PİŞKİN E.
Plastic, Reconstructive, and Aesthetic Surgery Stem Cell and Tissue Engineering Symposium, Samsun, Turkey, 10 -
12 May 2007
- XXVIII. **Some Novel Applications of Electrospun Biodegradable PCL Materials**
BÖLGEN N., İŞOĞLU İ. A., VARGEL İ., KORKUSUZ P., GRIFFITHS S., CARTMELL S., PİŞKİN E.
International Conference on Design of Biomaterials (BIND-06), Kanpur, India, 8 - 11 December 2006, pp.206
- XXIX. **Synthesis and Characerization of Nanofibrous Matrices Made from Blends of Low and High
Molecular Weight Poly(?-caprolactone) for Drug Delivery**
BÖLGEN N., İŞOĞLU İ. A., PİŞKİN E.
International Workshop on Nanostructured Materials NANOMAT 2006, Antalya, Turkey, 21 - 23 June 2006, pp.232

Supported Projects

İşoğlu İ. A., Turkey Institutes of Health Administration Project, Fıtık Tedavisinde Kullanılmak Üzere Çift Katmanlı Bir Yamamın Geliştirilmesi ve Etkilerinin In Vitro ve In Vivo Olarak İncelenmesi, 2022 - 2024

İşoğlu İ. A., TUBITAK Project, Development of a Bilayered New Generation Cardiac Patch and Investigation of Its in vivo Efficacy for the Treatment of Myocardial Damages, 2022 - 2024

İŞOĞLU İ. A., TUBITAK Project, NEW THERMO- AND PH-RESPONSIVE AMPHIPHILIC SMART POLYMERIC DRUG CARRIERS FOR TREATMENT OF SKIN CANCER, 2014 - 2015

İŞOĞLU İ. A., ERDEM İ., EU Framework Program Project, BIO-DENT: New Applications and Course Materials for Prosthetic Dentistry, Implant Dentistry and Biomedical Engineers, 2012 - 2015

Metrics

Publication: 52

Citation (WoS): 651

Citation (Scopus): 761

H-Index (WoS): 7

H-Index (Scopus): 8

Scholarships

Yurtdışı Doktora Sonrası Araştırmacı Bursu, TUBITAK, 2014 - Continues