

## Res. Asst. Ayça ASLAN ARAS

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-5232-2019

ScopusID: 57202888490

Yoksis Researcher ID: 279427



### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, Turkey 2020 - Continues

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Biyomühendislik, Turkey 2017 - 2020

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Biyomühendislik, Turkey 2012 - 2017

### Foreign Languages

English, C1 Advanced

Spanish, B1 Intermediate

### Certificates, Courses and Trainings

Occupational Health and Safety, Occupational Health And Safety , Yıldız Teknik Üniversitesi, 2019

Vocational Course, V3 Western Workflow Application Training, BIORAD, BIORAD, 2018

Vocational Training, Bioform, Yıldız Teknik Üniversitesi, 2014

Foreign Language, St. Giles International/Eastbourne, St. Giles Eastbourne, 2013

### Dissertations

Postgraduate, Development and characterization of negative ion emitting antimicrobial composite wall paint, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2020

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2018 - Continues

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

- I. **Public health challenges after the February 6 earthquakes: A comprehensive review of immediate and long-term impacts in Türkiye**  
Koçer A. T., Akpek A., Vural A., Aslan A., Erkoç A., Özen A. M., Sahin A., Oktay A., Şenol A. A., Batioğlu-Karaaltın A., et al.  
International Journal of Disaster Risk Reduction, vol.114, 2024 (SCI-Expanded)
- II. **Therapeutic peptides for coronary artery diseases: in silico methods and current perspectives**  
Aslan A., Yuka S.  
AMINO ACIDS, vol.56, pp.37, 2024 (SCI-Expanded)
- III. **Development and characterization of negative air ion emitting mica- and sericite-based antimicrobial pearlescent pigments**  
Aslan A., Karaduman E., Derun E., Pişkin M. B.  
CERAMICS INTERNATIONAL, vol.47, no.18, pp.26421-26429, 2021 (SCI-Expanded)
- IV. **Problems in Stem Cell Therapy for Cardiac Repair and Tissue Engineering Approaches Based on Graphene and Its Derivatives**  
ASLAN A., Allahverdiyev A., Bağirova M., Abamor E. Ş.  
CURRENT STEM CELL RESEARCH & THERAPY, vol.13, no.6, pp.447-457, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Current Approaches in Cardiac Repair: Somatic and Stem Cell Exosomes**  
Yuka S., Aslan A.  
CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE, vol.1, pp.11936-12023, 2023 (ESCI)
- II. **Recent advances in health biotechnology during pandemic**  
Arı Yuka S., Akpek A., Özarıslan A., Vural A., Koçer A. T., Aslan A., Karaaltın A. B., Gök B., Yılmaz B. B., İnan B., et al.  
Sigma Journal of Engineering and Natural Sciences, vol.41, no.3, pp.625-655, 2023 (ESCI)

## Books

- I. **Synthetic Biology and Tissue Engineering**  
Mutlu B., Arı Yuka S., Aslan A., Çakır Koç R.  
in: Applications of Nanomaterials in Medical Procedures and Treatments, Felipe López-Saucedo, Editor, Frontiers in Nanomedicine, Carmen, pp.26-74, 2023
- II. **Stem Cell-Based Therapeutic Approaches in Genetic Diseases**  
Aslan A., Arı Yuka S.  
in: Advances in Experimental Medicine and Biology, Kursad Turksen, Editor, Springer Nature, Edinburgh, pp.1-35, 2023

## Papers Published in Refereed Scientific Meetings

- I. **İletken nanofiber matrikslerde kullanılmak üzere yeşil sentezle elde edilen indirgenmiş grafen oksitin sentezi ve karakterizasyonu**  
Aslan Aras A., Pişkin M. B., Çakır R., Mutlu Özçınar B.  
7th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 2 - 04 October 2024, pp.1
- II. **Co-Ni nanoalaşım ve nanopartiküllerinin yeşil sentez yöntemi ile elde edilmesi ve karakterizasyonu**  
Karaduman E., Aslan A., Derun E., Pişkin M. B.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), 24 - 26 November 2021, pp.320

- III. **Türkiye'nin Bursa yöresinde yetiştiriciliği yapılan Rosenthal çeşidi siyah frenk üzümünün (Ribes nigrum) içeriklerinin belirlenmesi ve antibakteriyel kullanımlarının değerlendirilmesi**  
Eren N. M., Aslan A., Karaduman E., Uygunöz D., Günay Avcı S., Pişkin M. B., Derun E.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), Ankara, Turkey, 24 - 26 November 2021, pp.1158
- IV. **Negatif İyon Yayan Mika Temelli Antimikrobiyal Duvar Boyalarının Geliştirilmesi ve Karakterizasyonu**  
Aslan A., Derun E., Pişkin M. B.  
3RD INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Ankara, Turkey, 19 - 20 March 2020, pp.641
- V. **Current Problems in Stem Cell Applications for Cardiac Repair and Current Approaches Based on Tissue Scaffolds**  
ALLAHVERDİYEV A., ASLAN A., BAĞIROVA M., ABAMOR E. Ş.  
6. Ulusal Biyomühendislik Kongresi, İstanbul, Turkey, 05 April 2018, pp.58

## Supported Projects

Pişkin M. B., Üstündağ C. B., Çakır Koç R., Yılmaz A., Yeşilkr S., TUBITAK Project, Kompozit Nanofiber Kardiyak Yamaların Adipoz Doku Kaynaklı Mezenkimal Kök Hücrelerde Kardiyojenik Farklılaşma Ve Transkriptomik Değişiklikler Üzerine Etkisinin İncelenmesi, 2022 - 2025  
DERUN E., EREN N. M., KARADUMAN E., PİŞKİN M. B., ASLAN A., UYGUNÖZ D., GÜNAY AVCI S., Project Supported by Higher Education Institutions, Siyah Frenk Üzümü Ribes Nigrum Ekstraktı İçeren PLGA ve Kitosan Temelli Nanopartiküler İlaç Taşıyıcı Sistemlerin Geliştirilmesi ve Vulvovajinal Kandidiyazis Tedavisinde Kullanımı, 2021 - 2023  
Abamor E. Ş., Berber H., Allahverdiyev A., Bağirova M., TUBITAK Project, Visseral Leishmaniasise Karşı Polikaprolakton Temelli İmmünokemoterapötik Ajanları İçeren Nanopartiküler Taşıyıcı Sistemlerin Geliştirilmesi, 2017 - 2020

## Metrics

Publication: 13  
Citation (WoS): 4  
Citation (Scopus): 14  
H-Index (WoS): 1  
H-Index (Scopus): 2