

## **Asst. Prof. MEHLİKA KARAMANLIOĞLU**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAY-1533-2020

ScopusID: 37069179100

Yoksis Researcher ID: 268255

### **Education Information**

Doctorate, The University of Manchester, England 2009 - 2013

Postgraduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoteknoloji (YI) (Tezli), Turkey 2005 - 2008

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 2001 - 2005

### **Dissertations**

Doctorate, Environmental degradation of the compostable plastic packaging material poly(lactic) acid and its impact on fungal communities in compost, The University of Manchester, 2013

Postgraduate, Xylan-based biodegradable, wheat gluten-based antimicrobial film production, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoteknoloji (YI) (Tezli), 2008

### **Research Areas**

Medicine, Natural Sciences, Engineering and Technology

### **Academic Titles / Tasks**

Istanbul Gelisim University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği Bölümü, 2017 - Continues

### **Courses**

Biomedical Instrumentation, Undergraduate, 2022 - 2023

Endüstriyel Hijyen ve Toksikoloji, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Endüstriyel Hijyen ve Toksikoloji (Tezli), Postgraduate, 2019 - 2020

Analytical Chemistry, Undergraduate, 2019 - 2020

Analitik Kimya, Undergraduate, 2019 - 2020, 2018 - 2019

General Chemistry, Undergraduate, 2019 - 2020, 2018 - 2019

Biyomekanik, Undergraduate, 2018 - 2019

Biyomedikal Sistemler, Undergraduate, 2018 - 2019, 2017 - 2018

Kimya, Associate Degree, 2018 - 2019

Fizyoloji, Associate Degree, 2018 - 2019

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

- I. **Characterization of gelatin-based wound dressing biomaterials containing increasing coconut oil concentrations**  
Karamanlioğlu M., Yeşil kır Baydar S.  
Journal of Biomaterials Science, Polymer Edition, vol.35, no.1, pp.16-44, 2024 (SCI-Expanded)
- II. **Production and characterization of a coconut oil incorporated gelatin-based film and its potential biomedical application**  
Karamanlioglu M., Yesil kır-Baydar S.  
Biomedical Materials (Bristol), vol.17, no.4, 2022 (SCI-Expanded)
- III. **Comprehensive exploration of natural degradation of poly(lactic acid) blends in various degradation media: A review**  
Rosli N. A., Karamanlioglu M., Kargarzadeh H., Ahmad I.  
International Journal of Biological Macromolecules, vol.187, pp.732-741, 2021 (SCI-Expanded)
- IV. **Influence of Degradation of PLA with High Degree of Crystallinity on Fungal Community Structure in Compost**  
Karamanlioglu M., Alkan Ü.  
Compost Science and Utilization, vol.28, no.3-4, pp.169-178, 2020 (SCI-Expanded)
- V. **Influence of time and room temperature on mechanical and thermal degradation of poly(lactic) acid**  
Karamanlioglu M., Alkan U.  
Thermal Science, vol.23, 2019 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **A Review of Biomedical Engineering Research in Turkey During 2008-2018**  
KARAMANLIOĞLU M.  
International journal of advances in engineering and pure sciences (Online), vol.31, no.4, pp.316-327, 2019 (Peer-Reviewed Journal)

### **Books & Book Chapters**

- I. **Biyomedikal Enstrümantasyona Giriş**  
KARAMANLIOĞLU M., AKÇA H.  
Nobel, Ankara, 2021

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **INFLUENCE OF HYPERICUM PERFORATUM L OIL ON A PROTEIN BASED BIOMATERIAL**  
KARAMANLIOĞLU M.  
International Conference on Engineering Technologies, ICENTE'21, Konya, Turkey, 18 - 20 November 2021, pp.5
- II. **Evaluation of Various Amounts of Virgin Coconut Oil in Gelatin Films for Biomedical Applications**  
KARAMANLIOĞLU M.  
VII. INSAC International Congress on Natural and Engineering Sciences (ICNES-2021), Konya, Turkey, 21 - 23 October 2021, pp.35-36
- III. **Influence of different environmental factors on PLA degradation in compost and in ambient**

**conditions**

KARAMANLIOĞLU M., ALKAN Ü.

"Turkish Physical Society-35th International Physics Congress (TPS-35), 4 - 08 September 2019

- IV. **The Influence of crystallinity on the degradation of the compostable packaging material poly(lactic) acid from renewable resources and on fungal communities in compost**  
KARAMANLIOĞLU M., ROBSON G.  
4th International Conference on Pure and Applied Sciences: Renewable Energies, İstanbul, Turkey, 23 - 25 November 2017
- V. **The impact of the compostable packaging material poly(lactic) acid on fungal communities in compost.**  
KARAMANLIOĞLU M., ROBSON G.  
16th European Conference on Biotechnology, ECB-16, Edinburgh, Scotland, 13 - 16 July 2014, vol.31, pp.169
- VI. **The influence of biotic and abiotic factors on degradation of the compostable plastic packaging material polylactic acid.**  
KARAMANLIOĞLU M., ROBSON G.  
14th International Symposium on Microbial Ecology, ISME-14, Copenhagen, Denmark, 19 - 24 August 2012
- VII. **Degradation of polylactic acid**  
KARAMANLIOĞLU M.  
Microbiology Seminar Series of University of Manchester, 18 October 2010
- VIII. **Biodegradable film production from agricultural wastes.**  
KARAMANLIOĞLU M., BAKIR U.  
15th National Biotechnology Conference, Antalya, Turkey, Turkey, 28 - 31 October 2007