



Merve Nur DOĞU, M.S.

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PERSONAL

Date of Birth	11.03.1993
Place of Birth	Ankara

EDUCATION

2019-ongoing	Middle East Technical University, Metallurgical and Materials Engineering, Ph.D.
2016-2019	Middle East Technical University, Metallurgical and Materials Engineering, M. S. Topic: “ <i>Production of Ti-6Al-4V Alloy by 3D Electron Beam Melting Technique and Development of its Post Treatments</i> ” Supervisor: Prof. Dr. Arcan F. Dericioğlu Co-Supervisor: Assoc. Prof. Dr. Ziya Esen
2011-2016	Çankaya University, Materials Science and Engineering, B.S.

ACADEMIC POSITIONS

10/2017	Research Assistant, Department of Metallurgical and Materials Engineering, Atılım University, Turkey
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HONORS&AWARDS

1	Rank 1 award in the Materials Science and Engineering Department (CGPA: 3.94/4.00)
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RESEARCH INTERESTS

1	Ti and Ti-Alloys, Metals
2	Additive Manufacturing, Electron Beam Melting, Selective Laser Melting
3	Microstructure and micro-texture analysis (SEM, EDS, EBSD)
4	Thermo-Hydrogen Processing (THP)
5	Mechanical Testing

CONFERENCES and PRESENTATIONS

1	Ziya Esen, Merve Nur Doğu , Güney Mert Bilgin, Arcan F. Dericioğlu, designing thermochemical processes for Ti-alloys produced by additive manufacturing techniques, 4 th Additive Manufacturing Congress, 11-14 April 2019, Antalya, Turkey.
2	Merve Nur Doğu , Ziya Esen, Evren Tan, Berkay Gümüş, Arcan F. Dericioğlu, Production of Ti-6Al-4V Alloy by 3D Electron Beam Melting Technique and Development of Its Post Treatments, TMS 2019, 148 th Annual Meeting & Exhibition March 10-14, 2019 • San Antonio, Texas, USA. 142
3	Merve Nur Doğu , Ziya Esen, Evren Tan, Berkay Gümüş, Arcan F. Dericioğlu, Property Development of EBM Processed Ti-6Al-4V Alloys through Hydrogen Treatments, 19 th International Metallurgy and Materials Congress, 25-27 Oct. 2018, İstanbul Turkey.
4	M.N. Doğu and B. Ercan, “Biyomedikal uygulamalar için nano boyutlu hidroksiapatit toz sentezi”, İleri Malzemeler: Biyomalzeme ve Nanomalzeme Uygulamaları, Ed: Filiz Kuralay, Hacettepe Üniversitesi, 223-244, (2018).
5	Merve Nur Doğu , Güney Mert Bilgin, Ziya Esen, Evren Tan, Berkay Gümüş, Arcan F. Dericioğlu, Elektron Demeti ile Ergitme ve Seçmeli Lazer ile Ergitme Yöntemleri ile Üretilen Ti-6Al-4V Alaşımının Mekanik Özelliklerinin Termohidrojenleme İşlemiyle Optimize Edilmesi, Aselsan 3. Malzeme Teknolojileri Çalıştayı, 10-11 Mayıs 2018, Ankara Türkiye
6	Ç. M. Oral, M. N. Doğu and B. Ercan, “Synthesis of Calcium Carbonate Particles for Orthopedic Applications” 13 th Nanoscience and Nanotechnology Conference, 22-25 October 2017, Antalya, Turkey.
7	Ezgi Bütev, Aydın Albayrak, Hande Bircan, Merve Nur Doğu , Pelin Gündoğmuş, Buse Kahyaoğlu, Ziya Esen. “Structural and Functional Characterization of Surface Treated Biomedical Ti6Al7Nb Alloy Foams” PPM 2015 International Porous Powder Materials, 15-18 September 2015, Çeşme, İzmir, TURKEY.

PROJECTS

1	Üç Boyutlu Elektron Demeti Eritme (EDE) Yöntemiyle Üretilen Ti-6Al-4V Alaşım Parçalarının Mekanik Özelliklerinin ve İçyapısının İkincil İşlemlerle Geliştirilmesi, ODTÜ BAP, 2019.
2	Diyabet Tedavisine Yönelik İnsülin-yüklenmiş Biyoseramik Nanoparçacıkları Sentezi ve Uygulaması, ODTÜ BAP, 2016.

COURSES GIVEN

1	MATE 202 Mechanical Behavior and Testing of Materials (Laboratory)
2	MATE 314 Microstructure and Phase Relations (Laboratory)
3	MATE 441 Casting Processes and Applications (Laboratory)
4	MATE 445 Heat Treatments and Surface Hardening of Materials (Laboratory)
5	MATE 207 Introduction to Materials Engineering (Recitation)