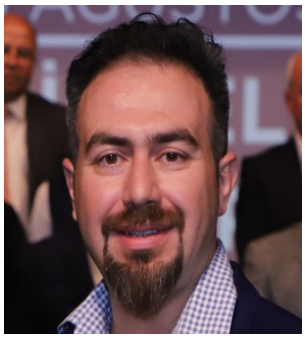
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Education Information

I. Post Doctorate, Silesian University of Technology, Biotechnology Center, Poland 2022 - 2023
II. Doctorate, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2015 - 2020
III. Postgraduate, Ataturk University, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Abd / Malzeme Bilimi, Turkey 2014 - 2015
IV. Undergraduate, Firat University, Faculty Of Engıneerıng, Department Of Metallurgıcal And Materıals Engıneerıng, Turkey 2004 - 2010

Foreign Languages

I. English, B2 Upper Intermediate

Dissertations

I. Doctorate, Production of niobium oxynitride coatings for biomedical applications and investigation of the structural, corrosion and in-vitro biocompatibility-antimicrobial properties, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2020
II. Postgraduate, Deposition of nanocomposite h-BN/Al2o3 coatings on AA2014 alloys by peo process; characterisation of structural and tribological properties, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2015

Research Areas

Tissue Engineering, Metallurgical and Materials Engineering, Material science and engineering, Polymeric Materials, Biomaterials, Plating, Biotechnology, Engineering and Technology

Academic Titles / Tasks

I. Research Assistant PhD, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2012 - Continues

Courses

I. Biyomühendislikte 3B Biyoyazıcı Uygulamaları, Postgraduate, 2023 - 2024
II. Teknik Resim, Associate Degree, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Characterization and performance of Tantalum-Tungsten based coatings deposited on Cp-Ti substrates by PVD technique**
ŞENOCAK T. Ç.
Materials Today Communications, vol.37, 2023 (SCI-Expanded)
II. **The antibacterial properties and corrosion behavior of silver-doped niobium oxynitride coatings**
Şenocak T. Ç., Ezirmik K. V., Cengiz S.
MATERIALS TODAY COMMUNICATIONS, vol.32, 2022 (SCI-Expanded)
III. **The mechanical, corrosion and tribological properties of Al2O3 films grown by anodisation and MAO**
Dayauc A. K., Acimert O. B., Senocak T. Ç.
INTERNATIONAL JOURNAL OF SURFACE SCIENCE AND ENGINEERING, vol.16, pp.105-123, 2022 (SCI-Expanded)
IV. **Influence of sodium pentaborate (B5H10NaO13) additive in plasma electrolytic oxidation process on WE43 magnesium alloys**
Şenocak T. Ç., Yilmaz T. A., Budak H. F., Gülten G., Yilmaz A. M., Ezirmik K. V., Totik Y.
MATERIALS TODAY COMMUNICATIONS, vol.30, 2022 (SCI-Expanded)
V. **Niobium-oxynitride coatings for biomedical applications: Its antibacterial effects and in-vitro cytotoxicity**
Şenocak T. Ç., Ezirmik K. V., Aysin F., Şimşek Özek N., Cengiz S.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.120, 2021 (SCI-Expanded)
VI. **One-step synthesis of nano-hydroxyapatite/graphene nanosheet hybrid coatings on Ti6Al4V alloys by hydrothermal method and their in-vitro corrosion responses**
Yigit O., DİKİCİ B., ŞENOCAK T. Ç., Ozdemir N.
Surface and Coatings Technology, vol.394, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. **INVESTIGATION OF THE STRUCTURAL AND MECHANICAL PROPERTIES OF TiN, NbN, and VN COATING DEPOSITION ON THE Co-Cr-Mo ALLOY BY MAGNETRON SPUTTERING**
Şenocak T. Ç., Yiğit O.
International Journal of Innovative Engineering Applications, vol.6, no.2, pp.1-6, 2022 (Peer-Reviewed Journal)
II. **Improving the Corrosion Properties of AZ91 Magnesium Alloy by Coating CrN/NbN with PEO and PVD Duplex Coating Methods**
Yiğit O., Şenocak T. Ç.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.34, no.1, pp.289-299, 2022 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Composite Materials in Biomaterial Applications: A Comprehensive Overview**
Şenocak T. Ç.
in: Composite Materials with Different Engineering Approaches- II , Boztoprak Yalçın, Editor, Özgür Yayınları, Gaziantep, pp.1-120, 2023

Refereed Congress / Symposium Publications in Proceedings

I. **Raman Characterization Of Silver-Doped Tantalum-Tungsten Nitride Structure Grown On Microscope Slide Substrate Utilizing The Pvd Technique**
Şenocak T. Ç.
The 5th International Conference of Materials and Engineering Technology (TICMET'23), Trabzon, Turkey, 13 - 16 November 2023

II. **Optimization of Melt Electrowriting (Mew) 3d Bioprinting Parameters Using the Taguchi Method**
ŞENOCAK T. Ç., Gudeti P. K. R., Włodarczyk-Biegun M. K.
HealthTech Innovation Conference (HTIC), Zabrze, Poland, 10 October 2022, pp.9-30

III. **Imaging of cells and bacteria for biomaterials researches with image processing technology**
ŞENOCAK T. Ç.
International Online Conferences on Engineering and Natural Sciences IOCENS'21, Gümüşhane, Turkey, 05 July 2021

IV. **PEO Yöntemiyle AA2014 Alüminyum Alaşımı Üzerine Büyütülen h-BN/Al2O3 Nanokompozit Kaplamaların Aşınma Özelliklerinin Karakterizasyonu**
Şenocak T. Ç., Arslan E.
International Online Conferences on Engineering and Natural Sciences IOCENS'21, Gümüşhane, Turkey, 05 July 2021

V. **Investigation of Hardness and Microstructural Properties of AA7075 Alloy by ECAP Method**
YILMAZ T. A., TOTİK Y., LÜLE ŞENÖZ G. M., ŞENOCAK T. Ç., EFEOĞLU İ.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC 2019), 21 - 23 June 2019, pp.1157-1159

VI. **One step nano-hydroxyapatite/graphene coatings produced by Hydrothermal method on Ti6Al4V alloy**
YİĞİT O., ŞENOCAK T. Ç., ÖZDEMİR N.
2nd International Conference on Physical Chemistry Functional Materials, Nevşehir, Turkey, 25 - 27 June 2019

VII. **EKAP Yöntemi ile AA7075 Alaşımının Sertlik ve Mikroyapısal Özelliklerinin Araştırılması**
YILMAZ T. A., TOTİK Y., LÜLE ŞENÖZ G. M., ŞENOCAK T. Ç., EFEOĞLU İ.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia / TURKEY (IMSMATEC 2019), Nevşehir, Turkey, 21 - 23 June 2019, pp.1

VIII. **Eloksal İşlemi Uygulanan Alüminyum Alaşımlarının Asidik ve Alkali Ortamlarda Korozyon Özelliklerinin İncelenmesi**
AKPINAR F., KALAN F., ŞENOCAK T. Ç., DİKİCİ B., EZİRMİK K. V.
KORSEM'xx18-XVth International Corrosion Symposium, 26 - 28 September 2018

IX. **Sıcak Daldırma Yöntemi ile Alüminyum Kaplanmış Yapı Çeliklerinin Korozyon Özelliklerinin İncelenmesi**
KALAN F., AKPINAR F., ŞENOCAK T. Ç., EZİRMİK K. V.
KORSEM'xx18-XVth International Corrosion Symposium, Hatay, Antakya, Turkey, 26 - 28 September 2018

Supported Projects

I. ŞENOCAK T. Ç., GÜNEŞ N., Project Supported by Higher Education Institutions, Yoğun bakım hasta karyolası

egzersiz aparatı, 2023 - Continues

II. ŞENOCAK T. Ç., GÜNEŞ N., Project Supported by Higher Education Institutions, Bariyerli tekerlekli sandalye güvenlik aparatı, 2023 - Continues

III. ŞENOCAK M. G., ŞENOCAK T. Ç., KABUL A., Project Supported by Higher Education Institutions, Bronkoskop ikili işlem kanal aparatı, 2023 - Continues

IV. İPEK ÇOBAN G., ŞENOCAK T. Ç., KABUL A., Project Supported by Higher Education Institutions, AKILLI SOĞUK KORSE, 2023 - Continues

V. ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, Sıcaklık kontrollü in-vitro potansiyodinamik korozyon hücresi, 2023 - Continues

VI. ŞENOCAK T. Ç., KABUL A., Project Supported by Higher Education Institutions, Tek kullanımlık balgam numune kabı, 2023 - Continues

VII. AKTAŞ ŞENOCAK E., ŞENOCAK T. Ç., KABUL A., Project Supported by Higher Education Institutions, Mıknatıslı nazal kanül aparatı, 2023 - Continues

VIII. İPEK ÇOBAN G., ŞENOCAK T. Ç., KABUL A., Project Supported by Higher Education Institutions, Spiralli Nazal kanül, 2022 - Continues

IX. ŞENOCAK M. G., ŞENOCAK T. Ç., AKTAŞ ŞENOCAK E., Project Supported by Higher Education Institutions, Cerrahi operasyon masası servis kolu (Angel arm), 2022 - Continues

X. TUBITAK Project, 3D printed tissue models for determining biocompatibility of metallic coatings, 2022 - 2023

XI. Şenocak T. Ç., Project Supported by Higher Education Institutions, Mikro ark oksidasyon yöntemiyle WE43 alaşımının aşınma ve korozyon özelliklerinin geliştirilmesi, 2021 - 2021

XII. EZİRMİK K. V., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, Havacılık Alanında Kullanılan Magnezyum Alaşımlarının Korozyon Özelliklerinin Çok Katlı Nitrür Kaplamalarla İyileştirilmesi, 2018 - 2020

XIII. KOCADAĞİSTAN M. E., ŞENOCAK T. Ç., ARSLAN E., Project Supported by Higher Education Institutions, PEO YÖNTEMİ İLE AA2014 ALAŞIMI ÜZERİNE H-BN/AL2O3 NANOKOMPOZİT KAPLAMALARIN BÜYÜTÜLMESİ; TRİBOLOJİK VE YAPISAL ÖZELLİKLERİNİN KARAKTERİZASYONU, 2016 - 2017

XIV. KOCADAĞİSTAN M. E., ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, YÜZEY İŞLEMLERİ LABORATUVAR ALTYAPISININ KURULUMU, 2016 - 2017

XV. ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, ZİNKATLAMA PROSESİ İLE AKTİVE EDİLEN AA2014 ALAŞIMI ÜZERİNE MAO YÖNTEMİ İLE AL2O3 BÜYÜTÜLMESİ; YAPISAL VE TRİBOKOROZYON ÖZELLİKLERİNİN KARAKTERİZASYONU, 2015 - 2017

XVI. ARSLAN E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, HASSAS DÖKÜM YÖNTEMİYLE MAGNEZYUM ALAŞIMLARININ ÜRETİMİ; MEKANİK VE TRİBOLOJİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2013 - 2014

XVII. BENKLİ Y. E., ŞENOCAK T. Ç., Project Supported by Higher Education Institutions, ÜRETİM METALURJİSİNDE YÜKSEK FIRINA ALTERNATİF YÖNTEMLERİNİN ARAŞTIRILMASI, 2012 - 2013

Patent

I. Şenocak T. Ç., Kabul A., TEK KULLANIMLIK BALGAM NUMUNE KABI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2023/013678 , Standard Registration, 2023

II. Şenocak M. G., Şenocak T. Ç., Aktaş Şenocak E., CERRAHİ OPERASYON MASASI SERVİS KOLU (ANGEL ARM), Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/019837 , Standard Registration, 2022

III. İpek Çoban G., Şenocak T. Ç., SPİRALLİ NAZAL KANÜL, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/022095 , Standard Registration, 2022

Scientific Research / Working Group Memberships

I. Polimerik Ve Nanopartiküler İlaç Araştırma, Geliştirme Ve Uygulama Grubu , Ataturk University, Turkey,

https://avesis.atauni.edu.tr/arastirma-grubu/piag, 2022 - Continues

II. Biofabrication And Bio-Instructive Materials, Silesian University of Technology, Poland, https://biofabrication.group/team/, 2022 - 2023

Mobility Activity

I. Post Doc, Post Doc, Silesian University of Technology, Poland, 2022 - 2023

Metrics

Publication: 18
Citation (WoS): 52
Citation (Scopus): 55
H-Index (WoS): 3
H-Index (Scopus): 3

Congress and Symposium Activities

I. 20th International Metallurgy and Materials Congress, Attendee, İstanbul, Turkey, 2021

Coaching Duties

Refereeing Duties

Non Academic Experience

I. Business Establishment Private, Eti Krom A.Ş., Ferrokrom Ark Fırını İşletmesi