

Asst. Prof. GÖRKEM YUMUŞAK

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-7490-2019

ScopusID: 57200993387

Yoksis Researcher ID: 55213

Biography

Gorkem Yumusak was born in Merzifon (Turkey) in 1987. He graduated from Marmara University Metallurgical and Materials Engineering Department in 2010 and started to work at Marmara University Metallurgical and Materials Engineering in 2011. He completed his master's degree in Materials Science and Engineering at Istanbul Technical University in 2012. Gorkem Yumusak was appointed by Marmara University for his PhD degree in 2013 and he received his PhD from Sheffield University (UK) in 2019. He is currently working at the Metallurgical and Materials Engineering Department of Marmara University.

Education Information

Associate Degree, Anadolu University, Açıköğretim Fakültesi, Otel, Lokanta Ve İkram Hizmetleri Bölümü (Aöf), Turkey 2021 - 2023

Doctorate, University of Sheffield, Faculty of Engineering, Materials Science and Engineering, United Kingdom 2013 - 2019

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2010 - 2012

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2008 - 2012

Undergraduate, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, Turkey 2005 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Evaluating the Effect of Titanium-Based PVD Metallic Thin Films on Nitrogen Diffusion Efficiency in Duplex Plasma Diffusion/Coating Systems, University of Sheffield, 2019

Postgraduate, Soğuk gaz dinamik püskürtme yöntemi ile Cu-Al₂O₃ kompozit kaplamanın üretimi ve karakterizasyonu, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2012

Research Areas

Ceramic Materials, Biomaterials, Thermal Treatment, Plating, Material Characterization, Metallic Materials, Surface Finishing Processes, Powder Metallurgy

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2020 - Continues

Research Assistant, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2011 - Continues

Academic and Administrative Experience

Deputy Head of Department, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2020 - Continues

Courses

Materials Characterization, Undergraduate, 2022 - 2023

Engineering Project II, Undergraduate, 2022 - 2023, 2021 - 2022

Problem Solving and Presentation Techniques, Undergraduate, 2022 - 2023, 2021 - 2022

Engineering Project I, Undergraduate, 2022 - 2023, 2021 - 2022

Materials Engineering Economics and Plant Design, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Metallography, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Materials Science I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Problem Solving and Presentation Techniques, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Advanced Topics in Materials Engineering, Postgraduate, 2022 - 2023, 2021 - 2022

Academic Presentation Skills, Undergraduate, 2019 - 2020

Introduction to Materials Science, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Production of Reduced Graphene Oxide by Using Three Different Microorganisms and Investigation of Their Cell Interactions**
Utkan G., YUMUŞAK G., Tunalı B. C., Ozturk T., Turk M.
ACS Omega, vol.8, no.34, pp.31188-31200, 2023 (SCI-Expanded)
- II. **Shielding effectiveness performance of polyaniline-NiFe₂O₄:Cu composites for sub-8 GHz applications**
Şahin E. İ., Emek M., Ibrahim J. E. F. M., Yumuşak G., Kartal M.
OPTICAL AND QUANTUM ELECTRONICS, vol.55, no.6, pp.500, 2023 (SCI-Expanded)
- III. **A microabrasion wear study of nitrided α -Ti and β -TiNb PVD metallic thin films, pre-deposited onto titanium alloy substrates**
YUMUŞAK G., Leyland A., Matthews A.
Surface and Coatings Technology, vol.442, 2022 (SCI-Expanded)
- IV. **The effect of pre-deposited titanium-based PVD metallic thin films on the nitrogen diffusion efficiency and wear behaviour of nitrided Ti alloys**
Yumusak G., Leyland A., Matthews A.

Surface and Coatings Technology, vol.394, 2020 (SCI-Expanded)

- V. **Samarium and yttrium doping induced phase transitions and their effects on the structural, optical and electrical properties of Nd₂Sn₂O₇ ceramics**
Saleh A. A., Qasrawi A. F., Hamamera H. Z., Khanfar H. K., YUMUŞAK G.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (SCI-Expanded)
- VI. **Gd and Tb doping effects on the physical properties of Nd₂Sn₂O₇**
Saleh A. A., Hamamera H. Z., Khanfar H. K., Qasrawi A. F., Yumusak G.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.88, pp.256-261, 2018 (SCI-Expanded)
- VII. **Physical properties of neodymium tin oxide pyrochlore ceramics**
Saleh A. A., Qasrawi A. F., Yumusak G., Mergen A.
MATERIALS SCIENCE-POLAND, vol.35, no.3, pp.534-538, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Properties of Copper Based Coatings Produced by Cold Gas Dynamic Spraying Process**
TAZEGÜL O., CALLI C., YUMUŞAK G., MEYDANOĞLU O., KAYALI E. S.
Academic Journal of Science, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Comparative Strength Analysis of PLA, ABS, PETG, TPU, and ASA Filaments: Influence of Nozzle Size and Filling Parameters**
ÇELİK S., TÜNÇAY M. M., YUMUŞAK G.
in: Properties of Materials, Prof.Dr. İlyas UYGUR, Editor, BIDGE Publications, Ankara, pp.32-52, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Optimization of Sintering Parameters and Post Sintering Characterisation in Mullite-Zircon Ceramics**
Bal E., Yumuşak G., Artır R.
International Congress of Engineering and Natural Sciences, Ankara, Turkey, 24 - 25 May 2023, pp.118
- II. **Fabrication and Characterization of Anodic Films on 304 Stainless Steel**
Ağırlar N., Bağcı N. C., Arkalı E., SARIOĞLU C., YUMUŞAK G.
International Conference on Engineering Technologies, 17 November 2022
- III. **Bioactive PVD Coatings on PEEK for Dental Implant Applications**
Furajji N. A., Yumuşak G., Leyland A., Wood D., Rehman I.
96th General Session and Exhibitions of the IADR, London, United Kingdom, 25 - 28 July 2018
- IV. **Titanium and Titanium Niobium Coatings by Magnetron Sputtering on Polyether Ether Ketone (PEEK) for Dental Applications**
Furajji N. A., Yumuşak G., Leyland A., Wood D., Rehman I.
19th Annual White Rose Work in Progress Meeting, Leeds, England, 18 December 2017
- V. **Evaluating the Effect of Titanium-Based PVD Metallic Thin Films on Nitrogen Diffusion Efficiency in Duplex Plasma Diffusion/Coating Systems**
Yumuşak G., Leyland A., Matthews A.
International Conference on Metallurgical Coatings and Thin Films (ICMCTF 44), California, United States Of America, 24 - 28 April 2017
- VI. **Properties of Ceramic Reinforced Copper Matrix Composite Coatings Produced by Cold Gas Dynamic Spraying Technique**
TAZEGÜL O., YUMUŞAK G., ÇALLI Ç., MEYDANOĞLU O., KAYALI E. S.

TMS 143rd Annual Meeting and Exhibition, San Diego, United States Of America, 16 - 20 February 2014

VII. Surface Modification of Copper with Cu-SiC Composite Coating by Cold Gas Dynamic Spraying Process

Tazegül O., Yumuşak G., Meydanoğlu O., Kayalı E. S.

14th International Materials Symposium (IMSP 2012), Denizli, Turkey, 10 - 12 October 2012

VIII. Characterisation of Cu-Al₂O₃ Composite Coatings Produced by Cold Gas Dynamic Spraying Process

Yumuşak G., Tazegül O., Meydanoğlu O., Kayalı E. S.

16th International Metallurgy and Materials Congress (IMMC 2012), İstanbul, Turkey, 13 - 15 September 2012

Metrics

Publication: 17

Citation (WoS): 20

Citation (Scopus): 20

H-Index (WoS): 3

H-Index (Scopus): 3

Scholarships

YÖK doktora bursu, YÖK, 2013 - 2018

Non Academic Experience

University of Sheffield