

Asst. Prof. GÖRKEM EĞEMEN GÜLOĞLU

Personal Information

Office Phone: [+90 312 210 4276](tel:+903122104276)

Email: gguloglu@metu.edu.tr

Web: <https://avesis.metu.edu.tr/gguloglu>

Address: Havacılık ve Uzay Mühendisliği Bölümü Orta Doğu Teknik Üniversitesi 06800 Çankaya, Ankara/TÜRKİYE

International Researcher IDs

ScholarID: hPCLg74AAAAJ

ORCID: 0000-0002-1119-2533

Publons / Web Of Science ResearcherID: AGQ-4475-2022

ScopusID: 56419926200

Yoksis Researcher ID: 363795

Education Information

Doctorate, University of Oklahoma, College of Engineering, Aerospace and Mechanical Engineering, United States Of America 2015 - 2018

Postgraduate, University of Oklahoma, College of Engineering, Aerospace and Mechanical Engineering , United States Of America 2012 - 2014

Undergraduate Double Major, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2006 - 2012

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2006 - 2011

Dissertations

Doctorate, A comprehensive study on moisture absorption ofthermosetting polymers,micro- and nanocomposites, and foams, 2018

Research Areas

Composites, Polymeric Materials, Material Characterization, Nanomaterials, Analysis techniques, Design Techniques, Deformation, Stress, Vibration and Noise Analysis, Test techniques, Paints and Coatings, Bonding techniques, Non Metallic Materials Materials, Space environment effects, Ground Tests - Structural Tests (Deformation, Stress, Vibration, Acoustics, etc.), Analysis techniques, Design techniques, Test Techniques, Bonding techniques, Non-metal materials, Space environment effects

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2022 - Continues

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2021 - 2022

Lecturer PhD, Middle East Technical University, Faculty Of Engineering, Department Of Aerospace Engineering, 2021 - 2022

Lecturer PhD, University of Oklahoma, College of Engineering, Aerospace and Mechanical Engineering, 2020 - 2021

Researcher, University of Oklahoma, College of Engineering, Aerospace and Mechanical Engineering, 2019 - 2020

Research Assistant, University of Oklahoma, College of Engineering, Aerospace and Mechanical Engineering, 2012 - 2018

Courses

Aerospace Structures, Undergraduate, 2021 - 2022

Mechanical Vibrations, Undergraduate, 2022 - 2023, 2021 - 2022

NUMERICAL METHODS FOR AEROSPACE ENGINEERING , Undergraduate, 2020 - 2021

Heat Transfer, Undergraduate, 2021 - 2022

Space Sciences and Astrodynamics, Postgraduate, 2020 - 2021

Materials, Design and Manufacturing Processes, Undergraduate, 2019 - 2020

Statics, Undergraduate, 2020 - 2021, 2019 - 2020

Dynamics, Undergraduate, 2019 - 2020

Space Sciences and Astrodynamics, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Moisture absorption of composites with interfacial storage**
Guloglu G. E., Hamidi Y. K., Altan M. C.
Composites Part A: Applied Science and Manufacturing, vol.134, 2020 (SCI-Expanded)
- II. **Pressurized Infusion: A New and Improved Liquid Composite Molding Process**
Akif Yalcinkaya M., Guloglu G. E., Pishvar M., Amirkhosravi M., Murat Sozer E., Cengiz Altan M.
Journal of Manufacturing Science and Engineering, Transactions of the ASME, vol.141, no.1, 2019 (SCI-Expanded)
- III. **Silk as a natural reinforcement: Processing and properties of silk/epoxy composite laminates**
Hamidi Y. K., Yalcinkaya M. A., Guloglu G. E., Pishvar M., Amirkhosravi M., Altan M. C.
Materials, vol.11, no.11, 2018 (SCI-Expanded)
- IV. **Fast recovery of non-fickian moisture absorption parameters for polymers and polymer composites**
Guloglu G. E., Hamidi Y. K., Altan M. C.
Polymer Engineering and Science, vol.57, no.9, pp.921-931, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **FARKLI KİMYASAL YÜZEY İYİLEŞTİRME İŞLEMLERİNİN PİRİNÇ KABUĞU EPOKSİ KOMPOZİT MALZEMELERİN MEKANİK ÖZELLİKLERİNE ETKİSİ**
Demirtaş M. S., Avcıoğlu E., Güloğlu G. E.
Akdeniz Mühendislik Dergisi, vol.2, no.1, pp.1-12, 2024 (Peer-Reviewed Journal)
- II. **Moisture absorption of carbon/epoxy nanocomposites**
Guloglu G. E., Altan M. C.
Journal of Composites Science, vol.4, no.1, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Manufacturing silk/epoxy composite laminates: Challenges and opportunities**
Hamidi Y. K., Yalcinkaya M. A., Guloglu G. E., Pishvar M., Amirkhosravi M., Altan M. C.
34th International Conference of the Polymer Processing Society, PPS 2018, Taipei, Taiwan, 21 - 25 May 2018,

vol.2065

- II. **Experimental and theoretical investigation of non-Fickian moisture absorption of quartz/BMI laminates fabricated by preconditioned prepregs**
Guloglu G. E., Hurdelbrink K. R., Anderson J. P., Altan M. C.
31st International Conference of the Polymer Processing Society, PPS 2015, Jeju Island, South Korea, 7 - 11 June 2015, vol.1713
- III. **Characterization of non-Fickian moisture absorption in thermosetting polymers**
Guloglu G. E., Altan M. C.
30th International Conference of the Polymer Processing Society, PPS 2014, Ohio, United States Of America, 6 - 12 June 2014, vol.1664
- IV. **Laminate processing effect on microvoids and hydraulic fluid absorption of Quartz/BMI laminates**
Hurdelbrink K. R., Guloglu G. E., Anderson J. P., Siddique Z., Cengiz Altan M.
20th International Conference on Composite Materials, ICCM 2015, Copenhagen, Denmark, 19 - 24 July 2015, vol.2015-July
- V. **Effect of microvoids on anomalous moisture absorption of quartz/BMI composite laminates**
Hurdelbrink K. R., Grace L. R., Guloglu G. E., Siddique Z., Anderson J. P., Altan M. C.
ASME 2014 International Mechanical Engineering Congress and Exposition, IMECE 2014, Montreal, Canada, 14 - 20 November 2014, vol.9
- VI. **Non-fickian moisture absorption in polymers coated with a thin nanocomposite layer**
Altan A., Altan M. C., Guloglu G. E., Guloglu G. E.
29th Annual Technical Conference of the American Society for Composites, ASC 2014; 16th US-Japan Conference on Composite Materials; ASTM-D30 Meeting, California, United States Of America, 8 - 10 September 2014

Supported Projects

Özgen S., Konukseven E. I., Güloğlu G. E., Söken H. E., Yaman Y., Kayran A., Technopark, Very Light Uçak (VLA) Geliştirilmesine Yönelik Bağımsız Araştırma-Geliştirme Projesi, 2023 - 2024

Metrics

Publication: 13

Citation (WoS): 97

Citation (Scopus): 118

H-Index (WoS): 5

H-Index (Scopus): 5