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Web of Science  
Scopus  
Orcid  
Researchgate

## 1 Research Areas

- Composite Materials
- Finite Element Theory and Applications
- Mechanics of Materials
- Biomechanics
- Dynamics
- Signal Processing
- Programming (C, Matlab, Python)
- Topology Optimisation

## 2 Articles

- Tümer, D., Arman, Y. & Havıtcıoğlu, H. **(2024)** The Effects of Tears in Infraspinatus on other Rotator Cuff Constituents. *Journal of the Mechanical Behavior of Biomedical Materials*, <https://doi.org/10.1016/j.jmbbm.2024.106600>
- Günindi, B., Toygar, E.M. & Tümer, D **(2024)** Design and heat analysis of basalt glass as a thermal storage material in a concentrated solar power (CSP) system. *Journal of Thermal Analysis and Calorimetry*, 149(5), 2007 – 2023. <https://doi.org/10.1007/s10973-023-12815-9>
- Tümer, D., Güngörürler, M., Arman, Y. & Havıtcıoğlu, H **(2020)** Investigation of effective coating of the Ti-6Al-4V alloy and 316L stainless steel with graphene or carbon nanotubes with finite element methods. *Journal of Materials Research and Technology*, 9(6), 15880 – 15893. <https://doi.org/10.1016/j.jmrt.2020.11.052>

## 3 Peer Reviews

- Engineering Research Express (3), 2024
- Journal of Materials Research and Technology (2) , 2023

## 4 Educational Background

- Ph.D., Dept. of Mechanical Eng., Ege University (2021 – ongoing)
- M.Sc., Dept. of Mechanical Eng., Dokuz Eylül University (2018 – 2021)
- B.Sc., Dept. of Mechanical Eng., Dokuz Eylül University (2012– 2017)

## 5 Theses

- Analyzing and assessment of different muscle groups in shoulder joint with finite element method, 2021, Dokuz Eylül University, Türkiye

## 6 Foreign Languages

- C1 level of English
- A1 level of German

## 7 Academic Experiences

- Republic of Türkiye Ministry of Industry and Technology – Türkiye – European Union project evaluator, 2021 – 2022
- Research and teaching assistant since March 10, 2020 in Dept. of Mechanical Eng., Ege University
- Research and teaching assistant in Statics, Strength of Materials, Computational Mechanics, Engineering Materials, Machine Laboratory

## 8 Membership in Research Groups

- The Living Heart Project , Stanford University, 2023

## 9 Certificates

- Institute of Physics (IOP) trusted reviewer, 2024
- Introduction to KnowItAll for IR & Raman (Vibrational Spectroscopy) by WILEY, 2024
- How to Prepare a Successful Paper, 2021, by Springer Nature

## 10 Congresses

- 1<sup>st</sup> and 2<sup>nd</sup> *International Congress on Innovation Technologies & Engineering*, Regulatory Board Member , 2022, 2023

## 11 Conference Papers

- Analyzing and assessment of different muscle groups in shoulder joint with finite element method, *3rd International Student Science Congress*, 12, 451 – 457, 2019