

## Assoc. Prof. HAMİT TEKİN

### Personal Information

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### International Researcher IDs

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### Biography

Hamit Tekin received his B.S. and M.S. degrees in Mechanical Engineering from Tabriz University. He completed his Ph.D. at Middle East Technical University in 2017. He currently holds the position of Associate Professor in the Department of Mechanical Engineering at Hacettepe University, Ankara. His research focuses on the mechanical characterization of fiber-reinforced composites and additive manufacturing technologies.

### Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey  
2011 - 2017

Postgraduate, Tabriz University, Engineering, Mechanical Engineering, Iran 2002 - 2005

Undergraduate, Tabriz University, Engineering, Mechanical Engineering, Iran 1998 - 2002

### Dissertations

Doctorate, Design and manufacturing of electrically conductive composites via microvascular channels, Middle East Technical University, 2017

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Non-traditional manufacturing methods, Mechanical, Mechanical Testing, Composites, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2024 - Continues

Associate Professor, University Of Turkish Aeronautical Association, 2023 - 2024

Assistant Professor, University Of Turkish Aeronautical Association, Engineering, Mechanical Engineering, 2018 - 2023

## Academic and Administrative Experience

Head of Department, University Of Turkish Aeronautical Association, Engineering Faculty, Mechanical Engineering, 2024 - 2024

Head of Department, University Of Turkish Aeronautical Association, Engineering Faculty, Mechatronic Engineering, 2023 - 2024

Vice Dean, University Of Turkish Aeronautical Association, Engineering Faculty, 2022 - 2024

Head of Department, University Of Turkish Aeronautical Association, 2021 - 2024

Director of Continuing Education Center, University Of Turkish Aeronautical Association, 2020 - 2022

## Courses

Machine Element II, Undergraduate, 2023 - 2024

Ölçme ve Veri Değerlendirme, Undergraduate, 2023 - 2024

## Advising Theses

Sabuncuoğlu B., Tanabi H., TEKİN H., Investigation of stress distribution in glass fiber reinforced composite materials with microvascular channels under transverse loading and bending, Postgraduate, A.GENCER(Student), 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental and numerical study on the ballistic performance of laminated ceramics**  
Cura M., Tanabi H., SABUNCUOĞLU B.  
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING, vol.193, 2024 (SCI-Expanded)
- II. **Experimental and analytical investigation of the tensile behavior of 3D-printed composites based on micro-CT analysis**  
Şik A., Tanabi H., Çubukçu H. E., Sabuncuoğlu B.  
Journal of Thermoplastic Composite Materials, 2023 (SCI-Expanded)
- III. **Stress analysis of vascularized glass fiber composites exposed to bending loading**  
Tanabi H., Atasoy A. G., Demiral M., Sabuncuoğlu B.  
ADVANCED COMPOSITE MATERIALS, vol.31, no.2, pp.208-220, 2022 (SCI-Expanded)
- IV. **Investigation of the shear properties of 3D printed short carbon fiber-reinforced thermoplastic composites**  
Tanabi H.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.35, no.11, pp.2177-2193, 2022 (SCI-Expanded)
- V. **Experimental and numerical investigation of transverse shear behavior of glass-fibre composites with embedded vascular channel**  
Demiral M., Tanabi H., SABUNCUOĞLU B.  
COMPOSITE STRUCTURES, vol.252, 2020 (SCI-Expanded)
- VI. **Micro-CT analysis of deviations in fiber orientation and composite stiffness near the microvascular channels embedded in glass-fiber reinforced composites**  
SABUNCUOĞLU B., Tanabi H., Soete J., Lomov S.  
COMPOSITE STRUCTURES, vol.237, 2020 (SCI-Expanded)
- VII. **Development of strain monitoring system for glass fiber reinforced composites via embedded electrically conductive pathways**  
Tanabi H., Erdal M.  
ADVANCED COMPOSITE MATERIALS, vol.28, no.6, pp.653-673, 2019 (SCI-Expanded)
- VIII. **Investigation of stress distributions in the resin rich region and failure behavior in glass fiber composites with microvascular channels under tensile loading**

### Articles Published in Other Journals

- I. **Investigation of the temperature effect on the mechanical properties of 3D printed composites**  
TEKİN H.  
International Advanced Researches and Engineering Journal, vol.5, no.2, pp.188-193, 2021 (Peer-Reviewed Journal)
- II. **Real-time tool wear monitoring based on feed motor current in chuck- center mounting condition**  
TEKİN H., Babaei N., Babaei A.  
ADVANCED MATERIALS RESEARCH, vol.341, pp.307-312, 2011 (Scopus)
- III. **investigation of Grinding Surface Temperature: Experimental Measurements and Numerical Modeling**  
Babaei N., Babaei A., TEKİN H.  
ADVANCED MATERIALS RESEARCH, vol.341, pp.147-151, 2011 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **CHARACTERIZATION OF 3D PRINTED SHORT GLASS FIBER REINFORCED POLYMERS AT VARIOUS TEMPERATURE**  
TEKİN H.  
Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, Turkey, 23 - 24 February 2021
- II. **Flexural Properties of Glass Fiber Reinforced Laminates with Embedded Vasculature**  
TEKİN H.  
The 9th International Scientific Research Congress, Ankara, Turkey, 12 December 2020
- III. **Evaluation of machinability of alloy ductile iron in term of thrust drilling force**  
TEKİN H.  
8th International Symposium on Innovative Technologies in Engineering and Science, Bursa, Turkey, 23 October 2020, vol.3, pp.91-97
- IV. **Micro-CT measurement of fiber disturbance and composite stiffness: Application to in glass-fiber reinforced composites with embedded microvascular channels**  
TEKİN H., SABUNCUOĞLU B., Soete J., Lomov S.  
Euromech Colloquium 602, Lyon, France, 13 - 15 March 2019
- V. **The effect of manufacturing parameters on the stress concentrations in composites with micro-vascular channels under transverse loading**  
Al Shawk A., TEKİN H., SABUNCUOĞLU B.  
4th International Conference on Mechanics of Composites, Spain, 09 July 2018
- VI. **DESIGN AND MANUFACTURING OF ELECTRICALLY CONDUCTIVE COMPOSITES VIA MICROVASCULAR CHANNELS**  
TEKİN H., ERDAL ERDOĞMUŞ M.  
4th International Conference on Mechanics of Composites, Spain, 9 - 12 July 2018
- VII. **Resin Transfer Molding of Particle-Filled, Continuous-Fiber Reinforced Composites**  
TEKİN H., Aydil T., ERDAL ERDOĞMUŞ M.  
American Society for Composites 29th Technical Conference, 16th USJapan Conference on Composite Materials, ASTM-D30 Meeting, United States Of America, 08 September 2014
- VIII. **PARTICLE DEPOSITION IN RESIN TRANSFER MOLDING OF ADVANCED COMPOSITES**  
Aydil T., TEKİN H., ERDAL ERDOĞMUŞ M.  
The 16th International Conference on Machine Design and Production (UMTIK 2014), İzmir, Turkey, 30 June 2014

**IX. Experimental Investigation of Particle-Filler Distribution in Continuous Fiber-Reinforced Composites Produced via Liquid Molding**

Aydil T., TEKİN H., ERDAL ERDOĞMUŞ M.

28th Technical Conference of the American-Society-for-Composites, United States Of America, 11 September 2013

**Metrics**

Publication: 23

Citation (WoS): 6

Citation (Scopus): 195

H-Index (WoS): 1

H-Index (Scopus): 6