

## Özgeçmiş

### Dr. Öğretim Üyesi Hamit TEKİN

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#### Akademik ve İdari Görevler:

- Türk Hava Kurumu Üniversitesi/Mühendislik Fakültesi/Makine Mühendisliği, Doktor Öğretim Üyesi, 2018,
- Türk Hava Kurumu Üniversitesi, Yaşam Boyu Gelişim Uygulama Ve Araştırma Merkezi, Müdür V., 2020,

#### Öğrenim Bilgisi

Doktora 2011 28/Aralık/2017	ORTA DOĞU TEKNİK ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ/MAKİNE MÜHENDİSLİĞİ (DR)  Tez adı: DESIGN AND MANUFACTURING OFELECTRICALLY CONDUCTIVE COMPOSITESVIA MICROVASCULAR CHANNELS (2017)
Yüksek Lisans 2002 5/Temmuz/2005	Tebriz Üniversitesi Makine İmalat Mühendisliği  Tez adı: Tool wear monitoring using feed motor power in a CNC turning machine (2005)
Lisans 1998 22/Eylül/2002	Tebriz Üniversitesi Makine İmalat Mühendisliği  (2002)

#### Eserler

##### Uluslararası hakemli dergilerde yayımlanan makaleler:

- H. Tanabi “Investigation of the temperature effect on the mechanical properties of 3D printed composites” International Advanced Researches and Engineering Journal, 2021.
- H.Tanabi, A.G. Atasoy, M. Demiral, B. Sabuncuoglu, “Stress Analysis of Vascularized Glass Fiber Composites exposed to Bending Loading Advanced Composite Materials” Journal of composite structure, 2021.
- B. Sabuncuoglu, J. Soete, H. Tanabi, S.V. Lomov,”Micro-CT analysis of deviations in fiber orientation and composite stiffness near the microvascular channels embedded in glass-fiber reinforced composites” Journal of composite structure, 2020.
- M. Demiral, H. Tanabi, B. Sabuncuoglu, ”Experimental and Numerical Investigation of Transverse Shear Behavior of Glass-Fibre Composites with Embedded Vascular Channels”, Journal of composite structure, 2020.
- H Tanabi, M Rafighi , Turning machinability of alloyed ductile iron compared to forged EN 1.7131 steel, Materials Testing, 2020.

- H. Tanabi, M. Erdal "The effect of shear mixing process parameters on electrical, mechanical and electromechanical properties of CNT/epoxy nanocomposites", Results in Physics Journal, 2019.
- H. Tanabi, M. Erdal "Development of strain monitoring system for glass fiber reinforced composites via embedded electrically conductive pathways", Journal of Advanced Composite Materials, 2019.
- A.Shawk, H. Tanabi, B. Sabuncuoglu "Investigation of stress distributions in the resin rich region and failure behavior in glass fiber composites with microvascular channels under tensile loading", Journal of composite structure, 2018.
- H. Tanabi, A.Shawk, B. Sabuncuoglu "Stress Concentrations in Composites with Microvascular Channels" Structural Integrity Procedia, 2017.
- K. Poorghasemi, F Ommi, V. Esfahanian and H. Tanabi " Investigation of the Soot and NO Emission Reduction Mechanism in DI Diesel Engines by Means of Split Injection Strategy." Journal of Fuel and Combustion,,pp 91-103,2011.
- H. Tanabi, N. Babaei,A. Babaei " Real-time tool wear monitoring based on feed motor current in chuck- center mounting condition" Advanced Materials Research Vols. 341-342 (2012) pp 307-312
- N. Babaei,A. Babaei, H. Tanabi " Investigation of Grinding Surface Temperature: Experimental Measurements and Numerical Modeling" Advanced Materials Research Vols. 341-342 (2012) pp 147-151

#### **Bildiriler:**

- H. Tanabi, Flexural Properties of Glass Fiber Reinforced Laminates with Embedded Vasculature, The 9th International Scientific Research Congress, Turkey, 2020.
- H. Tanabi, Evaluation of machinability of alloy ductile iron in term of thrust drilling force, 8th International Symposium on Innovative Technologies in Engineering and Science, Turkey, 2020.
- H. Tanabi, B.Sabuncuoglu , J. Soete and S. V. Lomov " Micro-CT measurement of fiber disturbance and composite stiffness: Application to in glass-fiber reinforced composites with embedded microvascular channels " Euromech Colloquium 602Lyon, France, 2019.
- H. Tanabi, M. Erdal "Design and manufacturing of electrically conductive composites via microvascular channels" 4th International Conference on Mechanics of Composites, Madrid, Spain, 2018.
- A.Shawk, H. Tanabi, B. Sabuncuoglu "The effect of manufacturing parameters on the stress concentrations in composites with micro-vascular channels under transverse loading"4th International Conference on Mechanics of Composites, Madrid, Spain, 2018.
- H. Tanabi, A.Shawk, B. Sabuncuoglu "Stress Concentrations in Composites with Microvascular Channels" XXVII Int. Conf. on Mathematical and Computer Simulations in Mechanics of Solids and Structures, Sent Petersburg, Russia, 2017.
- T. Aydil, H. Tanabi, M. Erdal," Particle Deposition In Resin Transfer Molding Of Advanced Composites", 16th International Conference on Machine Design and Production (UMTIK 2014), Izmir, Turkey, 2014.
- T. Aydil, H. Tanabi, M. Erdal," Resin Transfer Molding Of Particle-Filled, Continuous-Fiber Reinforced Composites", American Society for Composites 29th Technical Conference,16th USJapan Conference on Composite Materials, ASTM-D30 Meeting, California, USA, 2014.
- T. Aydil, H. Tanabi, M. Erdal," Modeling of Compression Resin Transfer Molding for Manufacturing Particle-Filled Advanced Composites", 28th American Society for Composites, Pennsylvania, USA, 2013.
- V. Poormostagimi and H. Tanabi " Investigation of the Effect of Tool Wear on Chip Radii by using of the Neural Networks" ICME 2010 Conf., Tabriz, Iran,2010
- H. Tanabi, N. Babaei, D. Khanlari "Evaluation of Machinability Rating of ADI in Comparison with Forged Steels" ICME 2010 Conf., Tabriz, Iran,2010

- N. Babaei, A. Babaei, H. Tanabi “Evaluation of process parameters effect on hardness of HPT disks and hardness prediction using fuzzy logic and regression” ICME 2010 Conf., Tabriz, Iran, 2010
- H. Tanabi, N. Babaei, D. Khanlari " Evaluation of Mechanical Properties and Machinability Rating of ADI in Comparison with Casting Steels “ National Mechanical Engineering Conference, Marvdasht, Iran, 2011

### **Projeler:**

- Project Code: BAP-03-02-2015-005, Project title: “Design and manufacturing of electrically conductive composites via microvascular channels”, Funded by The Scientific and Technological Research Council of Turkey (TÜBİTAK) 1001 R & D project. – Research fellow 2015-2017
- Project Code: 2170630, Project title: “BUYAN- Self-sealing composite coating”, Funded by The Scientific and Technological Research Council of Turkey (TÜBİTAK) 1512 R & D project. –2018-2019
- “Design and manufacturing of high performance 3 axis gimbal for multicolor UAVs”, HUMA Aviation Company- 2017-2019
- “Hybrid ballistic resistant composite material”, Burkut Technology Company- R&D 2016-2019
- “Üç boyutlu baskı yöntemiyle üretilen kırılmış cam elyaf kompozitlerin Micro-CT analizi ile iç yapısının incelenerek mekanik davranışının belirlenmesi” Hacettepe University, 2020-2021.
- Project Code: 7200115, Project title: “Self-sealing ballistic Hybrid coating”, Funded by The Scientific and Technological Research Council of Turkey (TÜBİTAK) 1507 project. 2020-2021.
- KOSGEB- R&D and Innovation Support Program Grand - Project title: “Self-sealing ballistic composite coating”. 2020-2021.

### **Ödüller:**

- 2017 Champion of “Yeni Fikirler Yeni İşler (YFYI 2017 )” that is Turkey’s first and biggest acceleration program.
- Awarded in “Tech Ankara Proje Pazarı 2017” competition with two projects
- Funded as one of 32 top worldwide projects in ISDB Transformers 2018, Cambridge, United Kingdom, Project title “Self-repairing advanced coating for water reservoirs, channels and pipelines aiming to prevent water waste, leakage and supply efficient irrigation”
- Awarded in ROBOIK 2019 unmanned ground vehicle competition, selected by Turkish Presidency of Defense Industries, 2019.

**Patent:**

- Reference No: P17/1282, File No: 2017/15146, Turkish patent, “Self-repairing ballistic coating- BUYAN”
- Reference No: P17/1295, File No: 2017/15209, Turkish patent, “Hybrid Armor”

**Araştırma ve çalışma alanları:**

- Composite materials
- Manufacturing techniques
- Additive manufacturing
- Advanced materials