

## **Asst. Prof. Hacı Abdullah Taşdemir**

### **Personal Information**

**Email:** tasdemirh@itu.edu.tr

### **International Researcher IDs**

ORCID: 0000-0002-2836-5488

ScopusID: 56611746400

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### **Education Information**

Doctorate, Nagoya University, Makine Bilimi Ve Mühendisliği, Japan 2011 - 2014

Postgraduate, Purdue University, Makine Mühendisliği, United States Of America 2009 - 2011

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2002 - 2007

### **Foreign Languages**

German, B1 Intermediate

English, C1 Advanced

### **Dissertations**

Doctorate, Boundary lubrication mechanisms of diamond-like carbon coatings with oil additives, Nagoya Üniversitesi, Makine Bilimi Ve Mühendisliği, 2014

### **Research Areas**

Mechanical Engineering, Construction and Manufacturing, Tribology, Machine Elements, Machine Design, Material, Mechanical, Mechanical Properties, Composites, Polymeric Materials, Plating, Material Characterization, Mechanical Metallurgy, Metallic Materials, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 2018 - Continues

Assistant Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 2015 - 2018

Research Assistant, Istanbul Technical University, Makina, Makina Mühendisliği, 2014 - 2015

### **Academic and Administrative Experience**

Deputy Head of Department, Istanbul Technical University, Makina, Makina Mühendisliği, 2023 - Continues

Rector's Advisor, Istanbul Technical University, 2022 - Continues

Assistant Manager of Research and Application Center, Istanbul Technical University, 2022 - 2024

Deputy Head of Department, İstanbul Technical University, Makina, Makina Mühendisliği, 2017 - 2020  
İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2016 - 2016

## Courses

Machine Design, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017  
ENGINEERING MATHEMATICS, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Engineering Mechanics, Undergraduate, 2020 - 2021, 2018 - 2019  
Probability and Statistics, Undergraduate, 2020 - 2021, 2019 - 2020  
Makina Elemanları II, Undergraduate, 2016 - 2017  
PROJE TASARIM ESASLARI, Undergraduate, 2016 - 2017, 2015 - 2016  
Atölye, Undergraduate, 2016 - 2017  
Project Design Principles, Undergraduate, 2016 - 2017

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

- I. **Effect of ZnDTP tribofilm's morphology on friction behaviors of DLC coatings: Tribofilm characterization by 3D scanning electron microscope observation**  
Aboua K. A. M., Umehara N., Kousaka H., Tokoroyama T., Murashima M., Taşdemir H. A., Mabuchi Y., Higuchi T.  
JOURNAL OF ADVANCED MECHANICAL DESIGN SYSTEMS AND MANUFACTURING, vol.12, no.7, 2018 (SCI-Expanded)
- II. **Effect of carbon diffusion on friction and wear properties of diamond-like carbon in boundary base oil lubrication**  
ABOUA K. A. M., Umehara N., Kousaka H., DENG X., TAŞDEMİR H. A., Mabuchi Y., HIGUCHI T., KAWAGUCHI M.  
Tribology International, vol.113, pp.389-398, 2017 (SCI-Expanded)
- III. **The effect of oil temperature and additive concentration on the wear of non-hydrogenated DLC coating**  
Tasdemir H. A., Wakayama M., Tokoroyama T., Kousaka H., Umehara N., MABUCHI Y., HIGUCHI T.  
TRIBOLOGY INTERNATIONAL, vol.77, pp.65-71, 2014 (SCI-Expanded)
- IV. **Influence of zinc dialkyldithiophosphates tribofilm formation on the tribological performance of self mated diamond like carbon contacts under boundary lubrication**  
Taşdemir H. A., Tokoroyama T., Kousaka H., Umehara N., Mabuchi Y.  
Thin Solid Films, vol.562, pp.389-397, 2014 (SCI-Expanded)
- V. **Wear behaviour of tetrahedral amorphous diamond-like carbon (ta-C DLC) in additive containing lubricants**  
Tasdemir H. A., Wakayama M., Tokoroyama T., Kousaka H., Umehara N., MABUCHI Y., HIGUCHI T.  
WEAR, vol.307, pp.1-9, 2013 (SCI-Expanded)
- VI. **Ultra-low friction of tetrahedral amorphous diamond-like carbon (ta-C DLC) under boundary lubrication in poly alpha-olefin (PAO) with additives**  
Tasdemir H. A., Wakayama M., Tokoroyama T., Kousaka H., Umehara N., MABUCHI Y., HIGUCHI T.  
TRIBOLOGY INTERNATIONAL, vol.65, pp.286-294, 2013 (SCI-Expanded)

## Metrics

Publication: 18  
Citation (WoS): 176  
Citation (Scopus): 245  
H-Index (WoS): 5

H-Index (Scopus): 6

### **Non Academic Experience**

T.C. ADALET BAKANLIĞI ADLÎ TIP KURUMU

Aselsan Akademi

Université de Lyon