

## Asst. Prof. MİKAIL TEMİREL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: HKF-3548-2023

### Education Information

Doctorate, University of Connecticut, Engineering Faculty , Biomedical Engineering , United States Of America 2016 - 2021

Postgraduate, Drexel University, Engineering Faculty , Mechanical Engineering , United States Of America 2013 - 2015

### Foreign Languages

English, C2 Mastery

### Research Areas

Health Sciences, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - Continues

### Courses

Microstructure Engineering , Undergraduate, 2022 - 2023

Fluid Dynamic and Designs , Undergraduate, 2021 - 2022

Solar Energy Fundamentals , Undergraduate, 2021 - 2022

Fluid Mechanics , Undergraduate, 2021 - 2022

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

- I. **Shape Fidelity Evaluation of Alginate-Based Hydrogels through Extrusion-Based Bioprinting**  
Temirel M., Dabbagh S. R., Tasoglu S.  
JOURNAL OF FUNCTIONAL BIOMATERIALS, vol.13, no.4, 2022 (SCI-Expanded)
- II. **Hemp-Based Microfluidics**

Temirel M., Dabbagh S. R., Tasoglu S.  
MICROMACHINES, vol.12, no.2, 2021 (SCI-Expanded)

- III. **Shape Fidelity of 3D-Bioprinted Biodegradable Patches**  
Temirel M., Hawxhurst C., Tasoglu S.  
MICROMACHINES, vol.12, no.2, 2021 (SCI-Expanded)
- IV. **Long-term cyclic use of a sample collector for toilet-based urine analysis**  
Temirel M., Yenilmez B., Tasoglu S.  
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- V. **Pushing the Limits of Spatial Assay Resolution for Paper-Based Microfluidics Using Low-Cost and High-Throughput Pen Plotter Approach**  
Amin R., Ghaderinezhad F., Bridge C., Temirel M., Jones S., Toloueinia P., Tasoglu S.  
MICROMACHINES, vol.11, no.6, 2020 (SCI-Expanded)
- VI. **High-throughput rapid-prototyping of low-cost paper-based microfluidics**  
Ghaderinezhad F., Amin R., Temirel M., Yenilmez B., Wentworth A., Tasoglu S.  
SCIENTIFIC REPORTS, vol.7, 2017 (SCI-Expanded)
- VII. **Solidification of additive-enhanced phase change materials in spherical enclosures with convective cooling**  
Temirel M., Hu H., Shabgard H., Boettcher P., McCarthy M., Sun Y.  
APPLIED THERMAL ENGINEERING, vol.111, pp.134-142, 2017 (SCI-Expanded)
- VIII. **Three-Dimensional-Printed Carnivorous Plant with Snap Trap**  
Temirel M., Yenilmez B., Knowlton S., Walker J., Joshi A., Tasoglu S.  
3D PRINTING AND ADDITIVE MANUFACTURING, vol.3, no.4, pp.244-251, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Development and characterization of a low-cost 3D bioprinter**  
Yenilmez B., Temirel M., Knowlton S., Lepowsky E., Tasoglu S.  
Bioprinting, vol.13, 2019 (Scopus)