

## Asst. Prof. MEHMET MOLLAMAHMUTOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: oRUFFPgAAAAJ

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Publons / Web Of Science ResearcherID: JPX-3301-2023

ScopusID: 56007588800

Yoksis Researcher ID: 345765

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey 2017 - 2022

Postgraduate, Oklahoma State University, School of Mechanical and Aerospace Engineering, Mechanical and Aerospace Engineering, United States Of America 2010 - 2012

### Foreign Languages

Arabic, B1 Intermediate

English, C2 Mastery

Russian, A1 Beginner

### Research Areas

Mechanical Engineering, Aeronautical and Space Engineering

### Courses

Computer Programming, Undergraduate, 2023 - 2024

Fluid Mechanics, Undergraduate, 2023 - 2024

Thermodynamics, Undergraduate, 2023 - 2024

Heat Transfer, Undergraduate, 2023 - 2024

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

- I. A deposition strategy for Wire Arc Additive Manufacturing based on temperature variance analysis to minimize overflow and distortion**  
Alhakeem M. M., MOLLAMAHMUTOĞLU M., YILMAZ O., Bol N., Kara O. E.  
Journal of Manufacturing Processes, vol.85, pp.1208-1220, 2023 (SCI-Expanded)
- II. Computational Evaluation of Temperature-Dependent Microstructural Transformations of Ti6Al4V for Laser Powder Bed Fusion Process**

Yildiz A. K., MOLLAMAHMUTOĞLU M., YILMAZ O.

Journal of Materials Engineering and Performance, vol.31, no.9, pp.7191-7203, 2022 (SCI-Expanded)

III. **The effect of evaporation and recoil pressure on energy loss and melt pool profile in selective electron beam melting**

MOLLAMAHMUTOĞLU M., YILMAZ O., ÜNAL R., Gumus B., Tan E.

International Journal of Advanced Manufacturing Technology, vol.120, no.5-6, pp.4041-4050, 2022 (SCI-Expanded)

## Articles Published in Other Journals

I. **Energy Density Determination for L-PBFP of Ti-6Al-4V Alloy for Various Beam Diameters and Hatch Distances**

Mollamahmutoğlu M., Yılmaz O., Köseoğlu C., Tecer H., Özeydin F., Kocaoğlu Ö. F., Emir E. Z.

Journal of Additive Manufacturing Technologies, vol.2, no.2, pp.695, 2022 (Peer-Reviewed Journal)

II. **Computational Evaluation of the Effect of Build Orientation on Thermal Behavior and in-situ Martensite Decomposition for Laser Powder-Bed Fusion (LPBF) Process**

Yıldız A. K., Mollamahmutoğlu M., Yılmaz O.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.36, no.2, pp.870-880, 2022 (Scopus)

III. **A numerical investigation of the effect of support thickness and void ratio on thermal behavior and possible martensite decomposition in laser powder-bed fusion process**

Yıldız A. K., Mollamahmutoğlu M., Dogan E., Yılmaz O.

Journal of Additive Manufacturing Technologies, vol.1, no.2, pp.1, 2021 (Peer-Reviewed Journal)

IV. **Volumetric heat source model for laser-based powder bed fusion process in additive manufacturing**

Mollamahmutoğlu M., Yılmaz O.

Thermal Science and Engineering Progress, vol.25, 2021 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

I. **Experimental investigation and performance evaluation of isothermal frictional two phase pressure drop correlations in vertical downward gas-liquid two phase flow**

Bhagwat S. M., MOLLAMAHMUTOĞLU M., Ghajar A. J.

ASME 2012 Heat Transfer Summer Conference Collocated with the ASME 2012 Fluids Engineering Div. Summer Meeting and the ASME 2012 10th Int. Conf. on Nanochannels, Microchannels and Minichannels, HT 2012, Rio Grande, Puerto Rico, 8 - 12 July 2012, vol.2, pp.337-348

II. **Experimental investigation and empirical analysis of non-boiling gas-liquid two phase heat transfer in vertical downward pipe orientation**

Bhagwat S. M., MOLLAMAHMUTOĞLU M., Ghajar A. J.

ASME 2012 Heat Transfer Summer Conference Collocated with the ASME 2012 Fluids Engineering Div. Summer Meeting and the ASME 2012 10th Int. Conf. on Nanochannels, Microchannels and Minichannels, HT 2012, Rio Grande, Puerto Rico, 8 - 12 July 2012, vol.2, pp.349-359

## Tasks In Event Organizations

Mollamahmutoğlu M., 10. ULUSAL HAVACILIK ve UZAY KONFERANSI, Scientific Congress, Turkey, Eylül 2024

## Scientific Research / Working Group Memberships

Advanced Manufacturing Technologies Research Group, Gazi University, Turkey, <https://amtrg.com/>, 2017 - Continues