

## Res. Asst. HANDE VURAL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: IYM-3873-2023

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### Education Information

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey  
2022 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, Turkey  
2021 - 2022

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey  
2016 - 2021

### Research Areas

Aeronautical and Space Engineering

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering,  
2022 - Continues

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

- I. **Ductile failure of Inconel 718 during flow forming process and its numerical investigation**  
Erdoğan C., Vural H., Karakaş A., Fenercioğlu T. O., Yalçınkaya T.  
Engineering Failure Analysis, vol.152, 2023 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental identification of uncoupled ductile damage models and application in flow forming of IN718**  
Vural H., Erdoğan C., Karakaş A., Fenercioglu T. O., Yalçınkaya T.  
26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April

2023, vol.28, pp.807-816

**II. Effect of process parameters on the ductile failure behavior of flow forming process**

Erdoğan C., Vural H., Fenercioglu T. O., Yalçinkaya T.

23rd European Conference on Fracture, ECF 2022, Funchal, Portugal, 27 June - 01 July 2022, vol.42, pp.1643-1650

**III. Numerical analysis of ballistic impact through FE and SPH methods**

Göçmen Y., Vural H., Erdoğan C., Yalçinkaya T.

23rd European Conference on Fracture, ECF 2022, Funchal, Portugal, 27 June - 01 July 2022, vol.42, pp.1736-1743

**IV. Ductile failure prediction during the flow forming process**

Vural H., Erdoğan C., Fenercioglu T. O., Yalçinkaya T.

2nd International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2021, Ankara, Turkey, 18 - 20 August 2021, vol.35, pp.25-33