# Res. Asst. CAN ERDOĞAN

## **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABA-1621-2020

ScopusID: 57215656370 Yoksis Researcher ID: 306783

### **Education Information**

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2021 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2018 - 2021

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2012 - 2018

#### **Dissertations**

Postgraduate, NUMERICAL IMPLEMENTATION AND ANALYSIS OF A POROUS PLASTICITY MODEL FOR DUCTILE DAMAGE PREDICTION, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2021

#### **Research Areas**

Aeronautical and Space Engineering

## **Academic Titles / Tasks**

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2019 - Continues

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

- I. Phase field modeling of fatigue crack growth retardation under single cycle overloads Waseem S., ERDOĞAN C., YALÇINKAYA T. International Journal of Fatigue, vol.179, 2024 (SCI-Expanded)
- II. A numerical ballistic performance investigation of Armox 500T steel through ductile damage models

Göçmen Y., ERDOĞAN C., YALÇINKAYA T.

Engineering Fracture Mechanics, vol.292, 2023 (SCI-Expanded)

III. A Numerical Study on the Ballistic Performance of Projectiles Formed by Shaped Charge Göçmen Y., ERDOĞAN C., YALÇINKAYA T.

Journal of Applied Mechanics, Transactions ASME, vol.90, no.11, 2023 (SCI-Expanded)

 $IV. \quad \textbf{Ductile failure of Incomel 718 during flow forming process and its numerical investigation} \\$ 

Erdoğan C., Vural H., Karakaş A., Fenercioğlu T. O., Yalçınkaya T.

Engineering Failure Analysis, vol.152, 2023 (SCI-Expanded)

V. Potential of high compressive ductility of ultrafine grained copper fabricated by severe plastic deformation

Asano M., Yuasa M., Miyamoto H., Tanaka T., Erdoğan C., Yalçınkaya T.

Metals, vol.10, no.11, pp.1-12, 2020 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

I. Phase field modeling of ductile fracture and application in metal forming

Waseem S., Erdoğan C., Yalçinkaya T.

26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April 2023, vol.28, pp.1593-1602

II. 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

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

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

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

IV. Numerical analysis of ballistic impact through FE and SPH methods

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

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

V. Numerical analysis and extension of a porous plasticity model for ductile failure

Erdoğan C., Yalçınkaya T.

2nd International Workshop on Plasticity, Damage and Fracture of Engineering Materials, Ankara, Turkey, 18 - 20 August 2021, pp.117

VI. Ductile failure prediction during the flow forming process

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

VII. Formulation and Implementation of a New Porous Plasticity Model

Yalçınkaya T., Erdoğan C., Tandoğan İ. T., Cocks A.

1st International Workshop on Plasticity, Damage and Fracture of Engineering Materials (IWPDF), Ankara, Turkey, 22 - 23 August 2019, vol.21, pp.46-51

## Metrics

Publication: 12 Citation (WoS): 3 Citation (Scopus): 29 H-Index (WoS): 1 H-Index (Scopus): 4