Res. Asst. CAN ERDOĞAN

Personal Information

Office Phone: <u>+90 312 210 4272</u> Email: cane@metu.edu.tr Web: https://avesis.metu.edu.tr/cane

International Researcher IDs ScholarID: LMIKRCkAAAAJ ORCID: 0000-0002-7560-0700 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. 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)

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 Fracture Modelling of Crack Initiation and Propagation in Dual-Phase Microstructures Tatli B., Erdoğan C., Ozcan M. E., Yalçinkaya T.
 3rd International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2023, İstanbul, Turkey, 4 - 06 October 2023, vol.61, pp.12-19
- II. Dwell fatigue fracture in Ti microstructures through crystal plasticity and phase field fracture frameworks

Bulut O., Erdoğan C., Yalçinkaya T.

3rd International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2023, İstanbul, Turkey, 4 - 06 October 2023, vol.61, pp.3-11

III. 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

- IV. 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
- V. 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
- VI. 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
- VII. 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

VIII. 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

IX. 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: 14 Citation (WoS): 18 Citation (Scopus): 48 H-Index (WoS): 3 H-Index (Scopus): 5