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Research Areas

Aeronautical 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. **Investigation of failure mechanisms in dual-phase steels through cohesive zone modeling and crystal plasticity frameworks**
Aydiner I. U., TATLI B., YALÇINKAYA T.
International Journal of Plasticity, vol.174, 2024 (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., Özcan 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. **Micromechanical modeling of failure in dual phase steels**
Aydiner I. U., Tatli B., Yalçinkaya T.
26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April 2023, vol.28, pp.1443-1452
- III. **Crack Initiation and Propagation in Dual-phase Steels Through Crystal Plasticity and Cohesive Zone Frameworks**
Yalçinkaya T., Tatli B., Ünsal İ. E., Aydiner I. U.
23rd European Conference on Fracture, ECF 2022, Funchal, Portugal, 27 June - 01 July 2022, vol.42, pp.1651-1659

Metrics

Publication: 4

Citation (WoS): 8

Citation (Scopus): 18

H-Index (WoS): 2

H-Index (Scopus): 2