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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. **Misorientation and grain boundary orientation dependent grain boundary response in polycrystalline plasticity**
YALÇINKAYA T., ÖZDEMİR İ., TANDOĞAN İ. T.
COMPUTATIONAL MECHANICS, vol.67, no.3, pp.937-954, 2021 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Micromechanically motivated inter-granular cracking in polycrystalline aggregates**
Yalçınkaya T., Tandoğan İ. T., Özdemir İ.
6th International Conference on Material Modelling, Lund, Sweden, 26 - 28 June 2019, vol.1, pp.62
II. **Development of a Micromechanics Based Cohesive Zone Model and Application for Ductile Fracture**
Yalçınkaya T., 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.52-60
III. **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
IV. **Micromechanical Modeling of Inter-Granular Localization, Damage and Fracture**
YALÇINKAYA T., Ozdemir I., Firat A. O., Tandogan İ. T.

22nd European Conference on Fracture (ECF) - Loading and Environmental Effects on Structural Integrity, Belgrade, Serbia And Montenegro, 26 - 31 August 2018, vol.13, pp.385-390

Metrics

Publication: 7
Citation (WoS): 8
Citation (Scopus): 20
H-Index (WoS): 2
H-Index (Scopus): 3