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Research Areas

Aeronautical and Space Engineering

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **Observation of heterogeneous deformation microstructure in ECAP processing of high-purity niobium**
Ikeda S., Miyamoto H., Yuasa M., Yalçinkaya T., Bulut O., Günay E.
2nd Workshop on the evaluation of crystal orientation of crystalline materials and techniques for analysing crystal orientation, Toyohashi, Japan, 28 - 29 November 2023, pp.8-9
- III. **A comparison of predictions from micropolar and strain gradient crystal plasticity theories for textured oligocrystals**
Tandoğan I. T., Bulut O., Budnitzki M., Yalçinkaya T., Sandfeld S.
93rd Annual Meeting of the International Association of Applied Mathematics and Mechanics, GAMM 2023, Dresden, Germany, 30 May - 02 June 2023, pp.227
- IV. **Examination of intrinsic and extrinsic size effect in thin specimens through crystal plasticity frameworks**
Günay E., Bulut O., Yalçinkaya T.
26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April 2023, vol.28, pp.1471-1480
- V. **Analysis of additively manufactured anisotropic microstructures through crystal plasticity frameworks**
Bulut O., Günay E., Fenercioğlu T. O., Yalçinkaya T.
26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April 2023, vol.28, pp.179-188
- VI. **The influence of thickness/grain size ratio in microforming through crystal plasticity**
BULUT O., Acar S. S., YALÇINKAYA T.
2nd International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2021, Ankara, Turkey, 18 - 20 August 2021, vol.35, pp.228-236

VII. Crystal plasticity modeling of additively manufactured metallic microstructures

Acar S. S., BULUT 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.219-227

Metrics

Publication: 7

Citation (Scopus): 32

H-Index (Scopus): 3